

Manufacturers Record

Exponent of America



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FEBRUARY 14, 1924

The Muscle Shoals Situation.

The Tennessee River and Muscle Shoals are one of the nation's great assets. The development of the hydro-electric possibilities at Muscle Shoals would result in opening a long stretch of the Tennessee River for navigation, and thus a twofold service would be rendered the country. In both respects here is an asset of measureless value which should be utilized not for individual profit alone but for the broadest service to the great stretch of country in which the river and Muscle Shoals are located.

The advocacy by the Manufacturers Record of the offer made by the three Southern power companies, and in connection therewith an offer for the production of nitrates and the manufacture of fertilizers, has attracted widespread attention throughout the country, and voluntary letters have come to us from many sources in enthusiastic praise of this position, urging that the Government should accept this offer in preference to the one made by Henry Ford.

Mr. Ford's plan has been in our opinion unwise from the beginning. He has demanded a hundred year lease on Muscle Shoals, and this should not be given to any individual or any combination of individuals on earth; for it stretches into three generations the ownership or control of a power of such measureless value. The terms of his offer have always been indefinite, and the Congressional Committee has tried in vain to get him to appear in person and explain in detail his offer, and meet the questions that would be raised. His very refusal to appear before the Congressional Committee it seems to us is practically an insult to Congress and to the people at large. It indicates that he regards himself as superior to the Committee and to the Congress—a most unwise position for any man to take, especially in view of the fact that he is asking Congress to transfer Muscle Shoals to him at what we think is an absurdly low price, and for twice the length of time which water powers are granted by the laws of the land. Therefore, his proposition should be rejected without hesitation.

On the other hand, the associated power companies of the South, and some of the leading chemists of the nation, have united in propositions which lift the whole undertaking far beyond anything that had ever been promised or suggested by Mr. Ford, or by any one else. The acceptance of this offer would guarantee the production of nitrates and of fertilizers by men whose ability and whose achievements rank as of national concern, and by the acceptance of this offer this power would be developed to the utmost extent feasible, and by a super-power system be made available for the great stretch of territory from the Carolinas to Mississippi, and from Mobile on the Gulf through Tennessee and the adjoining region. It is an offer fraught with tremendous possibilities for Southern development. Its acceptance would result in concentrating all of the influences and all of the capital back of these power companies and their associates into hastening as rapidly as possible the industrial and agricultural development of the South in order to create a market for this enlarged hydro-electric power development.

The very suggestion stimulates and quickens the thought of every man interested in the broadest utilization of the limitless resources of the South. For this reason we are publishing in this issue a number of voluntary letters that have been received, called forth by some recent editorials in the Manufacturers Record on this subject.

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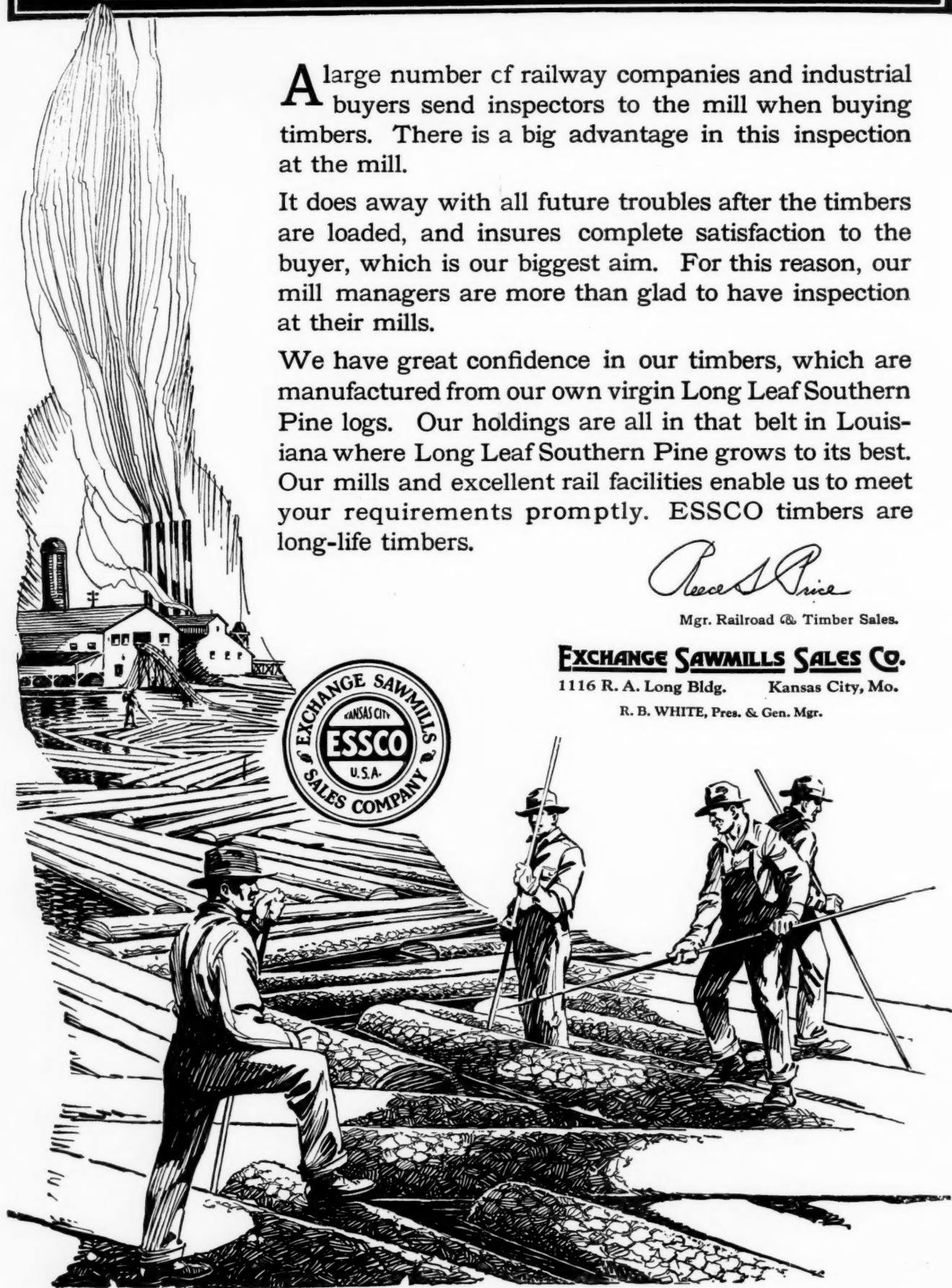


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Manufacturers Record

EXPONENT OF AMERICA

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of the South and Southwest as the Nation's Greatest Material Asset

Trade-Name Registered in the U. S. Patent Office

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BALTIMORE, FEBRUARY 14, 1924.

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In Obedience to Law Is Liberty; In Disobedience to Law Is Anarchy.

IN a letter to Attorney General Daugherty the editor of the MANUFACTURERS RECORD recently made some suggestions as to how to break up the bootleg industry and thus bring about obedience to law in that particular line, which possibly may be of interest. His letter was as follows:

"In consideration of the enforcement of our prohibition laws, the non-enforcement of which endangers our country, I wish you would give thought to this idea.

"The bootlegger cares very little for a jail or penitentiary sentence, even if it be for a year or so, provided he can pile up a lot of money to be available when he comes out of jail. To these people a jail sentence carries no especial degradation, and when they return from the jail they are as warmly welcomed back by their old associates as if they had received some national endorsement rather than condemnation. This was strikingly seen in Baltimore in a recent case where a bootlegger sent to jail for nearly a year, when released, was uproariously welcomed back into his old haunts by the crowd with whom he had associated in the past.

"You cannot, therefore, break up the bootlegging industry by jail or penitentiary sentences alone, unless they are made for a very long period, say 5 or 10 years as a minimum, in order to give these criminals an opportunity to reflect on their criminality. These men are out for the money to be made and they care nothing for anything else. The penitentiary sentence has no disgrace in it to them nor to their associates. But if you could devise a way by which bootlegging will be made unprofitable you would very soon see it largely broken up.

"Is it not possible to have a law enacted which will require a fine on any conviction, of the entire amount that the bootlegger has made out of the industry? Take from him every dollar of profit that has accrued through his criminality and there will be no temptation to him to continue bootlegging. Much of the money earned would probably have been spent or hid away. Nevertheless, by a thorough investigation the courts might be able to trace the profit that he has made and see what has become of the money, and then fine him the entire amount and make his jail sentence permanent until he pays to the Government the whole amount of money made out of bootlegging. If this could be put into effect it would probably be more powerful in destroying the whole bootlegging industry than even a penitentiary sentence.

"Some Savannah bootleggers were a few days ago fined \$10,000 each and sent to the penitentiary for from one to two years; but if reports are correct they have probably laid aside enough money to be independent for the rest of their lives, and a fine of \$10,000 counts for little to them.

"The bootlegging industry is one of the most diabolical

criminalities which this country has ever had to face. It is a definite determination on the part of criminals in this country, and in England and in Canada, to break down American laws. The men who are guilty of this are traitors to the nation. If there is no law which permits them to be treated as traitors, they should at least be treated as criminals to the extent of having every dollar that they have made out of this criminal work taken from them by a fine, and sending them to the penitentiary in addition thereto.

"Until a system something like this can be put into effect the bootleg industry will continue to thrive, because the temptation of money making is so great that men will engage in this pursuit hoping that even if caught and sent to jail, they will be able to come out with an ample supply of money for the future. No sentence of even \$10,000 fine and a penitentiary conviction of a year or two, will stop the bootleg industry so long as men boast of their enormous profits, unless these profits are to the last dollar taken from them by the Government.

"No one except criminals themselves could possibly object to this system, and the honest people of the country should not concern themselves as to how much objection the criminals raised to such a law. No man would dare oppose the enactment of such a law unless directly or indirectly he is affiliated in some way with the criminal bootleg industry of the country as a bootlegger, or as a buyer, or a drinker of the bootlegger's whiskey. And the buyer and the drinker are equally as guilty with the bootlegger himself for all his criminalities, because without their co-operation the whole industry would soon die.

"It ought to be possible also to have a law to punish every man who violates the law by buying the bootlegger's whiskey, but until such a law as that can be brought into existence I believe my suggestion that every dollar should be taken from him by the courts would go a long way toward stopping the business.

"This is no longer a question of prohibition. It rises far above any thought for or against prohibition. We have now reached a point where the supreme issue before the nation is obedience to law, for in obedience to law there is liberty, but disobedience to law will inevitably, if continued, bring anarchy and even governmental destruction.

"I have before me at the moment a clipping containing a denunciation of the bootleggers by Judge T. O. Heathcock of Atlanta. In his court on November 28 he said: 'The country's worst enemies of law and order are the bootleggers,' and he added that half the automobiles stolen were stolen by liquor runners. He denounced liquor smugglers, bootleggers and dealers in illegal beverages by declaring them to be 'traitors to the country,' and one of the biggest elements contributing to the tearing down of law enforcement. 'Sell-

ing whiskey' said he, 'is a fundamental crime as many murders, thefts and lesser crimes, to say nothing of the number of divorces have their origin in liquor;' and he added that the bootleggers were the 'Government's most pernicious enemies.'

"There is nothing new in the statement of Judge Heathcock, for we all know that the charge that he made against the whole liquor industry in its law-breaking campaign is true to the utmost detail, but it is worth while occasionally to emphasize these facts and every judge should do so; and I trust that on every possible occasion your department will call attention to the fact that the breaking down of law, or the connivance of so-called men of respectability, is a traitorous act and against the welfare and safety of our whole country. Every law violation of this kind endangers property rights as well as the right of life itself; and of all men, those who have property to safeguard should be the most careful in not starting an anarchistic conflagration which might sweep away all property rights in the land."

PERTINENT QUESTIONS ABOUT GERMANY.

HENRY B. JOY, of Detroit, Mich., in a letter to the MANUFACTURERS RECORD writes:

"How futile it seems to tell Germany how much she can pay, as if she didn't know. How ineffective it seems to teach Germany how to pay, as if she didn't know.

"The real problem is how to make Germany pay. Will Germany pay because we invite her to pay? So far as the record goes to date, Germany is defiant and impenitent. How would you suggest that Germany, were conditions reversed, proceed to make this country pay, if this country were defiant and impenitent and had no intention of paying?

"I think it is a very unhappy situation for this country to be mealy-mouthed about making Germany pay. Germany knows full well how to condition herself to pay; she knows full well how to levy taxes and how to collect them; she knows full well the burdens of taxation she has placed upon the Allied Nations. Has anyone heard her express any regret? Does any one think she is not thoroughly pleased with the situation? Does any one think that sixty millions of Germans are idle and starving? Germany is conducting a very large commerce and is playing her own game with consummate ability, and we Americans so far have been helping her and acting to the detriment of our ally and friend, France.

"I wish there were some way that we could let our rulers in Congress and in Washington understand that America's sympathy is practically 100 per cent for France, as I know it to be, from the reaction I have received from the booklet I circulated."

CORRECTION OF AN ADVERTISEMENT.

IN an advertisement of the Concrete Steel Company of New York printed in the MANUFACTURERS RECORD of February 7, the statement was made in copy furnished us:

"Havemeyer Bars are used extensively on Government work."

Through a most unfortunate error on the part of typesetters and proofreaders, this statement was made to read:

"Havemeyer Bars are used *exclusively* on Government work."

Such a statement of course the Concrete Steel Company did not make, and it would doubtless be obvious to most of the readers of the advertisement that an error had been made in typesetting. We especially regret the misstatement however because to any reader who did not recognize that such a mistake had been made it would create an impression which is entirely unfair to the Concrete Steel Company.

FARM IMPLEMENT SALES IN 1922 FROM 50 TO 60 PER CENT LESS THAN IN 1914.

THE National Association of Farm Equipment Manufacturers is sending out some interesting circulars in regard to the price of farm implements as compared with the price of other things. In giving some details in regard to the cost of the raw material which goes into the manufacture of farm implements, it has shown that most of these materials are costing from two to three times as much as in 1914, and labor more than double what it was at that time. Following this it is said:

"With material and labor two to three times as high as in 1914, it would be fair to assume that equipment made out of these elements should cost the farmer twice what he paid in 1914. While some machines are selling at such figures, the average of all farm machines is much lower. Keep in mind, too, that farm machines have been substantially improved in durability and efficiency, and are not comparable with 1914 models."

Another feature in connection with the cost of farm implements is the great decrease in output by reason of the failure of farmers to purchase. These figures as given by this association show that the production in 1922 of farm implements was about one-third or one-half, and in some cases even less, than in 1914. This decreased production, leaving a large part of the factory capacity unemployed, necessarily considerably increased the cost of manufacturing.

Fortunately, the tide has turned and rather better financial conditions of the farmers is enabling them to begin buying implements somewhat more freely, but until farmers get back to the ability which they had in 1914 to equip their farms with adequate machinery, the farm business and the agricultural implement business will suffer. One of the statements made in a circular recently issued by the association says: "Twenty of the leading companies have lost \$50,000,000 in two years." But in spite of these losses and the high cost of materials, this industry is doing its best to serve the farmers at the lowest figures compatible with present conditions. Another statement made in the circular says: "The farmer pays less money pound for pound and quality for quality for the machines that do his work, than he pays for any other similar manufactured article he buys."

In studying the condition of the farmers it is well to study how depression in agriculture has hit the implement manufacturers; how their depression has hit the iron and steel and other industries which furnish the raw materials for the vast agricultural implement business of the country. Judging by the comparative figures of 1914 and 1922, the farms of this country must be exceedingly short of adequate equipment and implements for handling their business to the best profit. The figures are as follows:

PRODUCTION OF FARM MACHINES.
(United States Government Figures.)

	1914	1922
Plows	1,335,104	431,409
Harrows	764,666	254,458
Corn Cultivators	378,934	89,633
Mowers	274,521	80,484
One-Horse Cultivators	254,158	58,619
Grain Binders and Headers	215,386	41,458
Sulky Rakes	139,565	30,019
Corn Planters	114,657	21,783
Cotton Planters	101,256	17,874
Broadcast Seeders	106,018	46,889
Grain Drills	89,370	17,606
Corn Binders	52,087	9,638
Hay Loaders	25,865	15,891
Threshers	13,548	8,885
Reapers	56,982	1,869
Corn Shellers	74,319	44,579
Listers	37,953	10,391
Land Rollers	22,470	1,777
Soil Pulverizers and Packers	12,724	2,940
Rakes, Side Delivery	20,213	9,155
Rakes, Sweep	23,304	9,051
Stackers	6,437	1,651

Practically all other lines of farm equipment have had similar declines.

WORKING FOR WORLD PEACE FROM A WRONG STANDPOINT.

TWO letters which have come to the MANUFACTURERS RECORD bearing on the propaganda in behalf of the Bok peace plan are interesting.

Mrs. Lida B. Robertson, a prominent educator of the South, writing on this subject said:

"As a Bible-teacher, I rely largely upon the MANUFACTURERS RECORD's clear presentation of public matters, and so your fine editorial on 'Bok's Peace Prize' posted me as to real 'covert' facts couched in it. To prove your solution of it I write to confide the 'proof.' We had read the articles in the dailies containing coupons to clip and send in as a vote of sanction, which I had not done, knowing as a Baptist there is no such thing as 'political peace:' that 'peace' cometh from regenerated folk, only, who seek God's truths as the plumb-line, so the covert 'campaign' was revealed to me the other afternoon at our missionary meeting. At the conclusion the president brought out a long envelope of solicitation to sign, for the Peace Prize. None of us signed it; but I asked who sent it to her and received the information that it was from the 'National Women's Clubs' headquarters in New York. I felt you would like this fact to be sent to you to sustain your contention, showing they were not leaving it to the papers nor the people, but 'campaigning' it privately."

Andrew J. Frame, Chairman of the Waukesha National Bank, one of the leading bankers of the country, sends us a copy of a letter which he wrote to the American Peace Award Committee under date of January 14, in the course of which he said:

(Copy)

Waukesha, Wisc.

American Peace Award,
342 Madison Avenue,
New York City.

Permit this brief on war prevention.

"Man's inhumanity to man makes countless thousands mourn." It seems, alas, beyond the power of man to abolish sin. A constant warfare is necessary to eradicate the tares or ameliorate the troublesome elements from nature's laws. Can we eliminate the tyranny of a Pontius Pilate, a Napoleon, or a Kaiser, who has turned the world upside down? Can sacred covenants between nations be upheld and not become "scraps of paper?"

To our mind, honest error, bad blood and innate selfishness cannot be eradicated from common clay, until the spirit of the Master takes hold of the great majority who will stand up for that most noble sentiment familiar to all, "Do unto others as ye would that others should do unto you." Then enforce all laws builded upon God's laws. Lax enforcement breeds anarchy.

To bring about "Peace on earth and good will to men" the rising generation must absorb these necessary things, primarily through the home, the school and the church. Then enforce by sound legislation.

We would welcome any sound remedy of the evil, notwithstanding we see no other panacea known among men, through which this great boon can be broadly accomplished.

As Mr. Bok's slogan is brevity, in the same spirit the above is

Respectfully submitted,

ANDREW JAY FRAME.

With the view expressed by Mr. Frame the MANUFACTURERS RECORD is in hearty sympathy. The thought that peace can be brought to this world and all wars prevented except through the acceptance of the teachings of "Him who spake as never man spake" shows the erroneous foundation on which many people are trying to build peace. There can be no peace in the individual heart, or in the world, except the peace which comes from the acceptance of the teachings of God. Peace as sung by the herald angels on Judea's plains was "peace to men of good will," not as we have sometimes wrongfully interpreted it peace to all men.

If Mr. Bok and his associates, and those who are running wild in enthusiasm over this visionary effort to bring peace

to the world, had realized that the individual heart must be cleansed of its sin, and the individual man made obedient to the laws of God, before there can be peace in the individual life—and it is only through obedience to God's laws in the individual man that there can possibly come peace to the nations of the world—perhaps they would have realized how fully they have been working from a wrong standpoint.

Freedom from war will come not through those visionary schemes, but only through the world's acceptance of the teachings of God. Then, and only then, will wars be banished and the spears be beaten into plowshares.

If the men and women of this and other countries want freedom from war then let them consecrate their lives to the one supreme issue of practicing and preaching the doctrines of the Prince of Peace; for until these doctrines are accepted world-wide there will not be freedom from war, despite all of the visionary scheming that sinful man may propose, and visionary enthusiasts may acclaim. Indeed, schemes of this kind are calculated to mislead the people, whereas the real teaching which should be given to mankind is the teaching which shows that human invention, such as Mr. Bok's plan, will never work out the world's desire for peace, but will rather retard the day of peace by centering the world's thoughts on such schemes instead of centering them upon the only true remedy for individual and national sins, and thus from individual and national criminality.

HOW THE SOUTH IS MISREPRESENTED.

COMMENTING on the many misrepresentations of the South which are appearing in Eastern magazines, such for instance as in The Outlook and Collier's, both of which we have recently had to take to task for printing falsehoods about this section, the Greenville, S. C., News says:

"Some of the propaganda written against the South and the manner in which it is circulated is indeed disgusting and discouraging at times. There is, however, no good in allowing it to create anger. The thing to do is to place before the people of other sections the true facts and correct information about this section. A great majority of Americans in all walks of life are fair minded; it is not always their fault that they are misinformed, and they are usually anxious to change false impressions which have been made upon their minds. When the masses of the North truly know the real South they will be proud of it and love it as Southerners do the nation."

The amount of misinformation about the South which exists among many otherwise intelligent people is almost incomprehensible. This misinformation does not always arise from spite or hatred against the South. It has been imbibed year after year from political denunciations of the South and from some magazines and the newspapers which are so badly informed about this section that they publish without hesitation all sorts of falsehoods.

The Atlanta Constitution has recently been bemoaning the fact that Georgia has been greatly misrepresented in the North and West by the sensational dispatches sent out from that state. It is true that Georgia seems to have developed a crop of sensational correspondents of Eastern and Western papers who love to parade with every possible elaboration every report of criminality in that state. They find the stuff is taken very freely by the papers which they represent, and paid for. But Georgia has made very little effort of recent years to counteract this kind of influence and to put itself squarely before the country from the true standpoint.

Broadly speaking, the same is true of the entire South. This section has been entirely too content to rest under the imputations placed upon it by many people in other sections. It has not to the extent that it should have done asserted before the world its achievements, past and present, and the

world is, therefore, ignorant to a considerable extent of the South.

Twenty-five or thirty years ago, for instance, some Florida railroads rarely published a descriptive pamphlet about the state without making the most dominant pictures in the pamphlet imaginary swamp scenes and alligators swallowing negro babies. We protested then that these railroad officials were doing the state infinite harm. The impression was created upon the minds of millions of people that alligators roamed all over the state of Florida, and really some people believed that they did swallow negro babies. The state has not yet fully recovered from that unfortunate influence, and people who are otherwise intelligent sometimes seriously ask the question of Florida residents if they are not afraid of the alligators, or if they are as dangerous in the streets of the towns as they have been told.

The reverse side of the South has been neglected year after year, and the swamp side and the alligator side have been made to do duty until people really believe these things.

It is time for the South to go to work and show by the actual facts the other side of the case. It is the duty of every commercial organization in the South, and of every individual concern, to make a persistent, year after year campaign to eradicate from the minds of the people of the country the misinformation which they have in regard to this section. On that point the advice of the Greenville News should be followed, and that without end. The thing to do, as the News says, "is to bring before the people of other sections the true facts and the correct information about this section."

For years the MANUFACTURERS RECORD, through its weekly issues, through hundreds of thousands of circulars which it distributes at its own expense, and through the Blue Book of Southern Progress, has been trying to do this work. We invite the co-operation of the people of the whole South in furthering these activities for their own good.

COULD HENRY FORD ISSUE HIS OWN MONEY?

Before the Civil War in the United States anybody who organized a state bank could issue notes—promises to pay money—their circulation outside the community in which the bank was located depending upon the reputation of the bank. The enactment of the federal law imposing a tax of 10 per cent on these state bank issues, obviously intended to force into circulation the note issues of national banks, put an end to state bank currency.

The recent decision of the Supreme Court of the United States in the child labor law case, holding that a law imposing a tax for regulatory or prohibitive purposes, and not primarily as a means of raising revenue, was unconstitutional, clearly reversed its former decision sustaining the prohibitive tax on state bank notes, which no one pretended was a revenue measure. If Mr. Ford thinks that there is not enough money—he means currency—the way is open to him to try the experiment of forming a state bank and issuing his own promises to pay. He might have to fight his way up to the Supreme Court, but think of the advertising he would get. Mr. Ford has been consistent in advising that self-help is far better than reliance upon government aid. Why doesn't he apply this idea to the alleged money scarcity against which he complains?—*Christian Science Monitor*.

It is rather surprising that in the light of the decision of the United States Supreme Court, to which the Christian Science Monitor refers, an attempt has not before this been made by some state bank to issue currency in order once more to test the constitutionality of the tax on state bank issues.

As our readers doubtless remember, prior to the Civil War many state banks issued currency. Some state laws were so wise and the bank issues were so carefully guarded that the money thus issued maintained its reputation for being worth par wherever it traveled. But in those days, lacking quick transportation and telegraphic facilities, a great many "wild cat" banks were established and state bank currency got into bad repute.

During the Civil War when the national banks were established based on the purchase of Government bonds, (this being the way in which the Union financed the Civil War after the organization of national banks) a tax was imposed upon the issue of state banks. In order to make the bill have the impress of legality it was enacted as a measure "to raise revenue," although it was well understood that no revenue whatever would come from it, for the real purpose of the bill was to destroy state bank issues for the benefit of the national bank system. The Supreme Court upheld the legality of that law. But the recent decision in the Child Labor law case to which the Christian Science Monitor refers would apparently compel the Supreme Court to decide against the legality of the tax on state bank issues if that question should ever again be raised.

Perhaps this phase of the matter has never before been brought to Mr. Ford's attention.

The late Edward Atkinson, the distinguished publicist, statistician and manufacturer of Massachusetts, was a sound money man to the core. He fought the free silver issue and all other efforts of a similar character with all the intensity of his nature, but he was a strong believer in the wisdom of state banks issuing currency. Shortly before his death he wrote quite a lengthy letter to a paper called "Dixie," then published in Atlanta, advising Southern legislators to undertake to have the tax on state bank issues repealed as he believed that that would be the best way in which to solve the currency problem of the country.

Few people would probably today favor the issuing of currency by state banks, but the facts which we are giving are of historical interest, and we are publishing them from that viewpoint by reason of the article in the Christian Science Monitor which almost suggests that Mr. Ford should make an attempt to establish a state bank for the purpose of issuing bank notes.

No one can tell what Mr. Ford may or may not do at any time. He is a genius of such surpassing ability in his own particular line and his achievements have been so marvellous that perhaps he may yet surprise the public by tackling the proposition put up to him by the Christian Science Monitor.

A MISTAKE OF SENATOR UNDERWOOD.

IN some of Senator Underwood's recent addresses he has made some good and forcible points, but when he came to discussing the tariff issue in Akron, Ohio, he is quoted as saying:

"The tariff bill which bore my name represented considerably lower rates than are now in effect, but under it there was prosperity in business of all kinds. The present rates should be sharply reduced."

We hope Senator Underwood has not been correctly quoted, for surely every man knows that under the Underwood bill there was almost universal depression in business, with an enormous increase in bankruptcies, with an almost complete obliteration of the sugar interests of Louisiana, and that depression and failures were steadily increasing until the European War created an enormous demand for American foodstuffs and manufactured products. Whatever prosperity existed under the Underwood bill was wholly a war-created prosperity, and we hardly think that Senator Underwood would presume to charge his bill with the responsibility for the war, and thus with the prosperity which came to our country through the war.

Under the Underwood bill the business interests of the country stagnated, for during 1914 prior to the opening of the war, it looked like a large part of the business concerns of the entire nation were headed for bankruptcy, and we were saved from that condition only by war-created activity.

A BANKER'S OPTIMISTIC VIEWS ON CONDITIONS IN THE MISSISSIPPI DELTA.

A LETTER from Jonestown, Miss., was recently published in the New York Journal of Commerce, painting a very doleful picture of conditions in the Delta region of Mississippi and indicating almost a complete destruction of the cotton crops and of all prosperity. In replying to an inquiry as to the correctness of the statements made, Mr. D. L. Bingham, Vice President of the Bank of Indianola, Indianola, Miss., who is in close touch with the whole situation in that section of the country, writes the MANUFACTURERS RECORD as follows:

"As to the Jonestown clipping, I am constrained to think it was written with a view of 'bulling' the cotton market. We are all too prone to write up our personal condition and apply it to the 'Delta' however, and it may represent a local condition. It is certainly not true of the Delta as a whole, since the compress receipts show that we have made more than 60 per cent of last year's crop, which was better than an average. The price of staples is disappointing but it will run about 25 per cent higher than last year. From these figures you can estimate how short the 'money pile' will run.

"Boll weevil was not our trouble last year, but weather conditions. We had twice the normal rainfall from January to December, and no man can make a full cotton crop a wet year. Of course the weevil keeps us from making cotton on wet land but with weather conditions normal, and with well drained land we do not fear the weevil. In fact if it were not for the weevil, with the improved seed and methods of cultivation and so on that we use we would make so much cotton it wouldn't bring 10 cents a pound.

"As to financial conditions let me give you this personal experience. I happen to be a director of the Staple Cotton Co-operative Association. Early in the season we anticipated an unusual demand for funds and we took it up with the Federal Farm Loan Board with a view to organizing an association to finance the farmer on growing crops under the Federal Intermediate Credit Act. We worked out all the details and notified the farmers what we had done, sending them application blanks at the same time. We also told them 'now here it is,' if you want it, go to it. Nobody will try to get you to 'jine' something, but here are the facts and if any of you anticipate any trouble in making your arrangements for next year's supply of funds get busy. It takes a hundred thousand dollars to operate as a minimum and up to the 12th of December, we had received applications for \$15,000 although there are hundreds of men in this delta who could easily qualify. In fact it is the opinion of most of the men interested that the Government terms are more liberal than those of the local banks.

"As to labor, there is no surplus but on the other hand the shortage is not acute. Most of the labor that has left this section for the North has been from the class that we have depended on for extra chopping and picking. It is almost impossible to hire that class of labor. The men who go North don't take the women and children as a rule and those who do would return if the 'city politicians' would let them alone. The Illinois Central Railroad has offered to cooperate with the planters and in several cases had arranged to bring back a goodly number, but at the eleventh hour the politicians have blocked their plans. A labor exodus will ruin any country of course, but so long as the negro leaves gradually as he has been doing in the past the labor problem in this section will solve itself. As we get better schools and better roads the country is slowly filling up with a better class of white farmers and the next move will be the cutting up of large tracts into small farms. This is being done now on a small scale and it will increase

each year. When we have reached this condition we will have the greatest country on the face of the globe.

"The curse of this country has always been extravagance and when we get a tariff back on our staple cotton so that we can compete with 'Egypt and Peru' without impoverishing our labor, we will have the best time in the world spending our earnings. Until we do we will 'howl worse than Jonestown' but any way in a dry year we will meet you at the gin with our part of the fleecy staple. If the 'dimmycrats' still decide to pay 'Egypt and Peru' for theirs and take ours we can't help it. We thank you again for the great part you have played in putting the South on the map."

PRESIDENT WILSON'S LEAGUE OF NATIONS COVENANT DESERTED BY ITS FRIENDS.

FORMER President Wilson in his devotion to the League of Nations Covenant as it stood, must have viewed with intense sorrow, during the last week or two of his life, the readiness of those who had stood by him to the utmost in believing that the covenant should not be changed, now to flock over to the American Peace Award of the Bok plan, which cuts out those sections of the covenant which Mr. Wilson said were "its very heart" and without which it would be valueless.

We never imagined, as we stated in the first discussion of the Bok Peace Plan, that those who had stood so valiantly by Mr. Wilson in defending the sections which he claimed to be "the heart of the plan," would instantly upon the first occasion repudiate all that he had said in favor of the covenant without changes, and grow enthusiastic in their wild hurrahs for the Bok Peace Plan which, whatever else may be said for or against it, has certainly cut the very heart out of the thing which Mr. Wilson said was the heart of the covenant. We had not believed it possible that those who had stood so loyally by him in his advocacy of the whole covenant would so suddenly change their views at a time when he did not have the physical strength to fight for the plan which he favored and which was being stabbed to death in the house of its supposed friends.

We imagine that it must have been a subject of poignant grief to Mr. Wilson to be deserted in this way in the hour of his deepest physical suffering, but this only shows how thoughtless have been many of the people in their advocacy of one plan or another for the League of Nations. So long as Mr. Wilson had the voice to command unswerving devotion to his idealism in favor of the whole plan without the changing of a single sentence, his devoted adherents followed him without question, but the moment he could no longer fight for the thing he believed to be right the country was flooded with propaganda for a plan for destroying the very essence of the League of Nations Covenant for which he had stood, and it was heralded even by Mr. Wilson's own adherents as the thing to adopt.

We cannot quite understand that kind of loyalty to a great man and that kind of conscientious adherence to what the advocates of the League of Nations without change in the covenant have been claiming as vital.

TEXAS AND HOMESEEKERS RATES.

MR. JAMES BIGGS, of Sherman, Texas, in a letter to the MANUFACTURERS RECORD referring to a recent editorial on, "Railroads and Homeseekers Rates," calls attention to a sentence in which it was said that thousands of people do not want to go as far south as Florida or Texas. Mr. Biggs writes, "I wonder why you did not limit the reference, so far as Texas is concerned, to the Southern part of the state. More than half of the state of Texas is

north of the latitude of Jacksonville, and the little town where the writer lives is in about the same latitude, practically the same height above the sea level as Atlanta and the extreme northern part of the state is as far north as Nashville and Winston-Salem. Texas needs homeseekers rates as much as any other part of the South."

We fully agree with Mr. Biggs that Texas does need homeseekers rates. Its railroads ought to be far more vigorous than they have been in settling up that state of limitless possibilities. The sentence to which Mr. Biggs refers was not written with the thought of geographical location in speaking of as far South as Texas so much as a matter of distance from the East and the North. There are, however, great areas in the West from which Texas should be able to draw a large population if homeseekers rates were granted and the railroads were active in state development. The fact that much of Texas is of high altitude and that its mountain ranges reach a height above any other mountain peak east of the Rocky Mountains is often overlooked, but Texas is so big that the average human mind can scarcely grasp its extent anyway.

APPRECIATED COMMENDATION.

COMMENDING the views recently expressed by the MANUFACTURERS RECORD in regard to the Muscle Shoals situation, J. E. Edgerton, President of the Tennessee Manufacturers Association, as well as of the National Association of Manufacturers, writes:

"I know of no journal in the nation that is more consistently right on all public questions than yours."

Another letter somewhat along the same line is from W. E. White, President of the White Furniture Co., of Mebane, N. C., in which he says:

"I consider the MANUFACTURERS RECORD the most valuable journal that we receive, and I always read it with a great deal of interest. I believe that it would be of interest to every manufacturer, banker, or any one else interested in the upbuilding of the South to subscribe to your journal. It is the best investment that we have, in my opinion."

AN UNJUST WAR TAX.

Postoffice department is proposing to give some attention to the handling of newspapers. It is high time, however, that the war taxes added to the expense of sending the news about the country several years ago, be reduced. Postal rates on second class matter, under which heading all newspapers and periodicals are listed, were raised without other excuse than the war emergency and never have been returned to normal.—*Jacksonville Times-Union*.

When this war tax upon newspapers was under discussion several members of Congress who had been opposed bitterly to our entrance into the War, said to a member of the staff of the MANUFACTURERS RECORD: "You newspaper people brought on the War, and now we are going to make you pay just as big a proportion of the cost as possible." That was the spirit with which some men then in Congress worked and voted for this heavy tax on publications.

DEFEAT OF THE PROPOSED AMENDMENT AGAINST TAX EXEMPT SECURITIES.

BY a very decisive vote the House of Representatives has wisely decided against the proposed amendment to the Constitution in opposition to tax exempt securities. This decision, we believe, is extremely wise and the longer the country studies this dangerous proposition, the more thoroughly it will realize how disastrous it would be if such an amendment should ever be adopted by this country.

PENSIONS FOR EMPLOYEES OF STEEL CORPORATION.

THE pensions paid out by the United States Steel Corporation and its subsidiary companies since this fund was established on January 1, 1911, amount to \$9,543,235.33. The payments have been steadily growing year by year until during 1923 they amounted to \$1,448,112.84.

In a report just issued it is shown that the amount expended by this pension fund to employees from 1911 to 1923 was as follows:

Total for 1923	\$1,448,112.84
Total for 1922	1,266,661.74
Total for 1921	947,879.15
Total for 1920	779,766.60
Total for 1919	733,707.45
Total for 1918	709,059.82
Total for 1917	712,506.65
Total for 1916	711,130.33
Total, 1911 to 1915, inclusive.....	2,234,410.75

Grand Total

\$9,543,235.33
At the end of 1923 there were 4462 beneficiaries of this fund. The average age of all the beneficiaries from 1911 to 1923 inclusive was 66.39 years, and the average time they had been in service was 31.60 years. The average monthly pension amounted to \$26.90.

VIEW OF AN EXPOSITION EXPERT.

CHARLES F. ROTH long identified with the chemical expositions held in New York, and now manager of the Second Paper Industries Exposition to be held in the Grand Central Palace, of that city, in April, writes:

"Through the MANUFACTURERS RECORD I have learned about the proposed Southern Exposition to be held in the Grand Central Palace in January, 1925, and feel certain that this effort made by Southern organizations, communities, railroads and others, will be one more help in concentrating the attention of Northern manufacturers, scientists, industrialists and financiers upon the South and its very remarkable opportunities as presented by its natural resources."

[From Official Publication of Dallas Chamber of Commerce.]

Manufacturers Record Most Generous.

The December 13 issue of the MANUFACTURERS RECORD, Baltimore, Md., carried an 8-page illustrated article on Dallas, furnished by the Publicity Department of the Dallas Chamber of Commerce. The Chamber has received requests for copies of the article and some Dallas firms have ordered copies of this issue direct from the publisher at 20c. a copy.

This is the most generous contribution of space ever given Dallas by a publication.

The MANUFACTURERS RECORD is the foremost magazine devoted exclusively to the upbuilding of the South and Southwest, and every business man who wishes to keep abreast of all activities in this rapidly growing territory would do well to subscribe for the publication.

Southern Metal Trades Association to Meet.

The seventh annual convention of the Southern Metal Trades Association, with headquarters in Atlanta, will be held at the St. Charles Hotel, New Orleans, on February 26 and 27. In addition to reports and announcements there will be an address on "Miscellaneous Details in Connection with Gray Iron Foundry Practice," by Dr. Enrique Touceda, consulting engineer of Albany, N. Y.

Addresses are also to be delivered by E. S. Jonett, vice president of the Louisville & Nashville Railroad Co., Louisville; N. M. Leach, president of the Pacific-Caribbean Gulf Line, Inc., New Orleans; Thomas Perkins, Macon; W. C. Tront, Lufkin, Tex.; and H. M. Lane, consulting engineer, Detroit.

Muscle Shoals, a National Asset, Should Be Used for the Benefit of the Whole South and Not Be Given on His Terms to Henry Ford, Probably the Wealthiest Man in America.

THE minority report of the Committee on Military Affairs of the House of Representatives at Washington as to the offer made by Mr. Ford for Muscle Shoals is the most comprehensive and detailed presentation of the situation which we have ever seen. This report was submitted by Congressman Hull of Iowa on behalf of himself and five other associates. After reviewing in the utmost detail the whole situation in regard to Muscle Shoals and the water power potentialities of the South and calling attention to the fact that Mr. Ford has refused to appear before the Committee to answer questions which might be asked as to his plant, this report says:

"Under these circumstances we see no reason, even if higher consideration of public policy did not prohibit it for inducing Mr. Ford with heavy subsidy in the form of power and property to engage in that profitable enterprise. The opportunity to make fertilizer at Muscle Shoals has been created primarily by the Government through the construction of its war-time works and secondarily by the genius of the men of science who have developed available processes. Mr. Ford has had nothing to do with either of these factors.

"If the foregoing is a correct analysis, as we believe it to be, it follows that Mr. Ford ought not to be accorded special privileges and subsidy for any purpose whatsoever; that it is unnecessary, in order to secure cheaper fertilizer production, to embark on the tortuous and dangerous course of Government largess even if higher principles could be waived, and that even if higher principles were waived and the largess bestowed, there is no certainty that the promised benefits would follow.

"* * * "If it was ever worthy of consideration that Muscle Shoals should be given to Henry Ford for the sole and only reason that no other bidder has made a comprehensive offer, that consideration has been forever obliterated. The record now discloses that if bargains are to be made a far better bargain can be made with other parties than anything Mr. Ford offers.

"* * * "The properties at Muscle Shoals are required for national defense. They are a part of the present equipment of the military affairs of the nation. They should not for one moment pass into the ownership of any private parties whatsoever. While it is true that all property of all citizens can be taken by the Government when necessary for national defense, this furnishes no excuse for deeding away vital factors of preparedness. The same argument would support the sale of our arsenals, our war supplies of all kinds. To allow the properties to be used under adequate supervision and without passage of title is one thing; to sell them is a totally different matter. It should not be done.

"A large amount of evidence was brought before the Committee to show the widespread demand in the South for hydro-electric power and the concern which is felt in that section lest the Muscle Shoals power be entirely withdrawn from public service. * * *

"It was further brought out before the Committee that industrial users of power in the Southeast in the main purchase their power from power companies at rates from 5 mills to one cent, depending upon the amount used, and that upon the average the industrial users of the South are paying now \$18,000,000 for an equal amount of power that Mr. Ford will secure from these plants in 1936 at a cost of \$3,300,000.

In other words, without regulation of any kind, Mr. Ford would then obtain for his business use an advantage over other users—municipalities, cotton mills, mines, etc.—to the extent of \$15,000,000 per year in his actual power costs. On the other hand, this power, if distributed to the public, would tend to reduce the price of power to the public over a great part of the South, and in addition would enable vast areas, such as Mississippi, Western Tennessee, Louisiana, and Florida to obtain hydro-electric power from this Government development, when otherwise they will never have any opportunity to do so. * * *

"Imagination cannot compass the advantages to the fortunate legatee of this gigantic gift from a great Government. If it shall be made, it will be unparalleled in our history. The request is to use additional Government money running to \$50,000,000 at a rate not half what private industry pays in the investment world, indisputable rights to nearly one million horse power for private, unrestricted, unregulated use, though millions of users may clamor for it; plant facilities, towns, streets with all improvements, bought for a mere fraction of their cost and many millions below ascertained value at the junk heap!

"Nor can imagination picture or foresee the full effect of what this will mean to the nation over the term of 100 years, and more. Can it be anything less than a sinister menace, a grave danger, an unmistakably false step wholly unjustified, a grievous wrong to the future generations that will have to live under it and abide by what we here do?"

Stress is laid upon the importance of not leasing the Muscle Shoals developments for a longer period than for 50 years. That is the strong point which the MANUFACTURERS RECORD has made from the beginning of the discussion, insisting that under no consideration whatever should Mr. Ford or any one else be given control over these powers for a longer period than half a century. Mr. Ford's insistence upon a hundred year's lease should without any further consideration of any kind compel Congress to reject his offer, even if in every respect all other terms were equal to the best that can be had from others.

We would very urgently advise every man interested in the welfare of the South to secure from Congressman Harry E. Hull of Iowa a copy of this Minority Report and to study it with a full sense of the tremendous responsibility which rests on those handling this proposition or advocating or opposing Mr. Ford's offer or any other offer. The proposition has now become one of such tremendous importance that it vitally affects the future of the whole South, indeed of the whole country. It is for this reason that we are so freely discussing it in this week's issue and presenting the views of others on the subject.

The latest proposal formulated by the allied Southern power companies and those associated with them is for the organization of a company of \$15,000,000 of paid-up capital controlled by American citizens, and a bill has been introduced by Congressman Hull of Iowa, authorizing the Secretary of War to enter into a contract with the proposed said corporation on the basis of the offer made. This offer provides for the fixation of nitrogen, for the manufacture of phosphoric acid, and for providing electric power for the manufacture of fertilizers.

The position of the MANUFACTURERS RECORD in regard to Muscle Shoals is now as it has been from the beginning that the policy of the Government should be to secure for the people of the entire South the largest possible benefit of this

water power and for the people of the entire country the largest possible safeguarding of the nation in time of war, and for its prosperity in time of peace by the fixation of nitrates and connected therewith the production of fertilizers.

Unless Mr. Ford is prepared to fully match the very best offer that the Government can secure from these Southern power companies or from any one else, safeguarding the nation in every possible respect, not for the individual profit of Mr. Ford, already too rich, but for the good of the country it would be unspeakable folly for Congress to turn this empire of possibilities over to him for his own individual enrichment. If any better offer can be secured than the one which has been made by the Southern power companies, taking all things into account, it should be given full and favorable consideration.

The MANUFACTURERS RECORD is favoring the proposition made by the Southern power companies because it believes that if accepted it would open an era of almost unlimited expansion of the general business and industrial interests of the whole Central South from Carolina to the Mississippi, but if anybody else can make an offer guaranteeing still larger results for the whole South we would welcome its being presented to Congress.

The following letter from J. E. Edgerton, president of Tennessee Manufacturers Association, himself a large manufacturer and likewise president of the National Association of Manufacturers, exactly voices the view of the MANUFACTURERS RECORD on this subject.

Lebanon Woolen Mills

Lebanon, Tenn., February 9.

Editor Manufacturers Record:

I am taking the liberty of enclosing copy of letter which I am mailing out as President of the Tennessee Manufacturers Association to the 1200 members of that organization in this state. This letter tells the story of the action which the annual convention of the organization took last Tuesday, February 5, and the considerations out of which this action came.

I am one of those who feel very strongly that prejudice, sentiment and politics have played too big a part in determining the attitude of many citizens in this and other sections, and of some of our representatives in the United States Congress. The fact is that comparatively few people whom I have met have read either the Ford proposal or any of the others. Because of the general admiration for Mr. Ford's genius and for helpful services which he has rendered to the country, a tremendously strong sentiment has been created for the acceptance of his proposal without much consideration of what its terms are, or the consequences of its acceptance. In the face of such a sentiment comparatively few people have had enough courage either to oppose Mr. Ford or even to insist upon a fair and proper consideration of other proposals.

I believe further that any proposal which does not contain the guarantees which are set forth in our resolution should be rejected, and that if no proposal contains all of these guarantees it should be referred back for their inclusion. I am frank to say that according to my understanding of the proposals now before Congress, after a careful study of them, I personally construe that the proposal submitted by the Associated Power Companies embraces more of the essential principles suggested in our resolution, and is therefore more desirable than Mr. Ford's. But even if the proposal of the power companies does not embrace these essentials, and is not otherwise fundamentally adequate, then these companies should be required to modify their proposal accordingly.

I have no interest of any sort in this matter except that of a citizen and taxpayer who wishes to see these properties out of politics and handled to the best advantage of all the people.

J. E. EDGERTON.

The letter of President Edgerton to the members of the Tennessee Manufacturers Association is as follows:

"At the annual convention of the Tennessee Manufacturers Association last Tuesday, February 5, which was one of the most largely attended and enthusiastic meetings ever held by the organization, a resolution was passed touching the famous Muscle Shoals properties which we think the entire

membership of the Association should be acquainted with lest there be some misunderstanding as to either its content or intent. The resolution adopted with only two or three audibly dissenting votes was as follows:

"Resolved by the Tennessee Manufacturers Association in annual convention at Nashville that in making of any contract by the Federal Government for the operation of the development at Muscle Shoals, manufacture of explosives for national defense be deemed the most important feature; manufacture of fertilizer in time of peace second; that the contract with the license provide that power from Muscle Shoals shall be distributed in Alabama and the adjoining states and offered for sale; that the Federal Water Power Act apply to the contract, and that the completion of Dam No. 3 be positively assured."

"The considerations and feelings out of which this resolution sprung seemed to be in general that the attitude of any individual or group towards the disposal of these extraordinary valuable properties ought to be governed by a full and calm consideration and understanding of all proposals from whatever source and without prejudice in favor of or against anybody; that no class of citizens is or should be more interested in this vital matter than the manufacturers, particularly of the South, because their very industrial existence as well as the uniform development of the industrial resources of this whole section are to a large extent dependent upon adequate power development from which they may freely obtain electrical energy economically produced and distributed; that every other kind of organization is interesting itself either for or against some proposal and with or without a full understanding of the contents and possible consequences of any proposal; and that the Tennessee Manufacturers Association owes it to its constituency, and all the people now living and yet to be born, who will be vitally affected by the disposal of their property and by the manner of its operation, to take a dispassionate, sane position which will insist upon certain fundamental guarantees that ought to be in the Government's contract with any licensee.

"The above resolution seeks only to set forth these guarantees, and we do not see how any unprejudiced citizen who is not seeking individual, local, or class advantage of a selfish character can oppose such insistence, which is intended to lift this tremendously important question out of anything but patriotic consideration and have it settled on the secure basis of what is best for all of the people.

"We do not believe that any man is in a position to pass sane and reliable judgment upon the question until he has read and studied all proposals before Congress and until he can divest his mind of prejudice and such sentiment as distorts the processes of clear reasoning. While he may admire the marvelous genius of Mr. Ford and feel deeply grateful to him for the notable service he has performed in awakening the nation to a realization of the immeasurable wealth of possibility in the Muscle Shoals property, or while on account of sectional pride or something else we may be predisposed to look with favor upon the offer of the power companies, we should not be swept off our feet by sentiment and bargain away for fifty or a hundred years so valuable an asset unless the consideration is adequate and unless the rights of all the people are safeguarded at every point. Obviously, Mr. Ford nor anybody else should have with or without the Government's consent, an uncontrolled monopoly on such a natural resource, for that would constitute a life and death power over the industrial and economic existence of our section.

"This question is big enough and important enough to every citizen, and especially to every manufacturer, to command his very careful reading and study of all the proposals. It is entirely too big and too important for any citizen to pass judgment upon or exercise himself over with no other basis than that so and so said so and so, or that so and so deserves it because he or they discovered it and

want it. We have in our offices analyses of the various proposals and are prepared to furnish unbiased information to anybody that needs or wants it. All that is urged in this communication, however, is that every one of our members inform himself very thoroughly and very quickly, and then lend his every effort to that proposal only which embodies all of the guarantees set forth in the association's resolution.

"In the meantime, upon the application of any member we will furnish him all of the information we have on the subject, and our opinion also if it is desired. But to forestall immature or political action by Congress, it would be well, we think, for each member to urge upon his representative in Congress that the principles embraced by our resolution should govern their consideration and vote."

The Muscle Shoals Situation and the Offer of the Allied Southern Hydro-Electric Companies as Viewed by a Canadian Business Man.

Montreal, February 1.

Editor Manufacturers Record:

A copy of the MANUFACTURERS RECORD of January 17, has just been received by me, and I have read with deep interest your correspondence with Mr. Ford and with Mr. Martin and the expression of your views upon the Muscle Shoals development. I hasten to congratulate you upon the sound common sense in the position taken by you.

The aim and life work of the late James Mitchell from earliest days of his connection with the Alabama Power Company was the creation of a public service corporation to serve Alabama and the South, delivering electric power to cities, towns, and hamlets, and adding to and creating new industrial wealth. He drew upon his own fortune, and he raised large capital through his friends and banking connections in London and in New York, and carried out his dream. The work is now being continued by Mr. Martin and his organization. No utility company in the United States has been more efficient in serving a community or state. No company has men in its organization of higher ability or energy, and certainly none of more integrity, nor having a deeper sense of public service than is shown from the highest to the lowest employee in the Alabama Power Company.

During the past two years there has been a bitterness, an unfairness, and a petty criticism on the part of proponents of the Ford offer against the Alabama Power Company. The British investors, of whom I am one, who had the honour to be associated with the late James Mitchell, and whose money assisted in making the present day Alabama industrial world a possibility years before it otherwise would have been, have been held up to scorn. Peanut politicians have rallied against the Company within the Legislature and without. Honourable men were bitterly attacked and their motives impugned. The flood of invective happily seems to have passed its zenith, and is now ebbing very rapidly.

The evidence brought out at the hearings before the Military Affairs Committee in Washington can not fail, if fairly considered, to convince one of the soundness of the offer of the associated Southern power companies and its advantages.

Firstly, in assuring to the United States Government a fair return on its investment, and ensuring full control of electric power and the facilities created for war purposes and for the production of fertilizer in time of peace.

Secondly, in assuring to each city, town, and hamlet in Alabama and adjoining states electric power for industry, ensuring comfort in its homes and creating a diversity of employment over a wide area.

The quickening of industrial and community life will in

turn be reflected by a greater development of agriculture. Home markets for diversified crops will be available to the farmer, and better farming methods will naturally follow.

The Alabama Power Company is a public service corporation. To those who have built it, it is a corporation with a soul, and it is an Alabama organization. Its direction and management are by Alabamians. Its staff are Alabamians by birth or adoption, whose aim and object may be expressed in one phrase, "Ich Dien"—"I serve."

To have been associated with the late James Mitchell was an honour, and to be associated with the staff and organization of Alabama Power Company today is equally an honour. So long as such men can be found in the South, there need be no fear of domination from any source, and the South will continue to receive honest, loyal, faithful, and efficient service in whatever communities and to whatever extent it calls upon the Alabama Power Company and the associated and interconnected power company systems for electric energy and service.

The sound and responsible people of Alabama realize the value of the great utility system that has been created and is operating in their midst, and are giving expression to their views. The evidence of the Hon. R. V. Taylor, Mayor of Mobile; of Douglass Taylor, of the Huntsville Manufacturers Association; H. H. Frazier, of the Selma Chamber of Commerce; and Robert I. Ingalls, President of the Birmingham Chamber of Commerce, and many others has been given without equivocation, and in the opinion of these leaders in widely separated sections of the state, the distribution of electric power from Muscle Shoals over a wide area through utilization of existing utility systems is the sound and logical disposition of the Muscle Shoals power with full protection of facilities and electric power to the Government at all times for war purposes and with provision for fertilizer manufacture in the immediate future.

I thank you for the editorial you have published, and I apologize for the liberty I have taken in writing you as I have as this length.

W. J. HENDERSON.

A Birmingham Banker's Strong Commendation of Muscle Shoals Editorials.

Jemison and Company,
Investment Bankers,

Birmingham, Ala., January 30.

Editor Manufacturers Record:

Please permit me to congratulate you on what seems to me a most sound, constructive and far-sighted position on the Muscle Shoals proposition as so clearly outlined by you in the MANUFACTURERS RECORD of January 17.

It seems to me nothing but right and fair that such a valuable asset, in which the entire people of the South are interested, should be placed in the hands of corporations under the control and supervision of public service commissions, rather than in the hands of an individual inexperienced and untried in the development of an asset which is certainly worthy of every safeguard which the Government can place around it, and which should be in the hands of people who have already demonstrated their qualifications for the proper handling of a highly technical project of this kind.

ROBERT JEMISON, JR.

A Selma Banker's Views.

The Selma National Bank,

Selma, Ala., January 31.

Editor Manufacturers Record:

I have read with much interest your article in reference to the Muscle Shoals situation in your issue of January 17 and approve and appreciate the position you take.

E. C. MELVIN, President.

Mayor Taylor of Mobile, Again Criticizes Henry Ford's Muscle Shoals Proposition.

Hon. R. V. Taylor, Mayor of Mobile, in a letter to the MANUFACTURERS RECORD writes:

"Upon seeing in the daily papers of January 24 a statement that Mr. Ford did not intend to sell power generated at Muscle Shoals, but to use all of it for his industrial plants, I telegraphed Chairman Kahn of the Military Affairs Committee asking for a hearing on the following Saturday. I appeared and started a tempest of opposition among the pro-Ford newspapers. I clearly stated in reply to the inquiry made by Acting Chairman McKenzie that as far as the pending bids were concerned I represented no one except myself and such other citizens of Mobile as had expressed their opinion to me."

After returning from Washington to Mobile, Mayor Taylor submitted to the Mobile City Commission a statement as to his action in the matter, in the course of which he said:

"On account of the public discussion now going on with respect to my recent action in regard to the pending bids for control of Muscle Shoals and the many misrepresentations in regard thereto I beg to make the following statement:

"In performing what I believe to be the proper functions of Mayor of this city, it has been necessary for me in several instances of my volition to take the initiatory steps in the accomplishment of results in my opinion imperatively demanded by the public good. For example, when what is known as the Port Amendment authorizing the legislature to extend the credit of the State to the amount of \$10,000,000 in development of the Port of Mobile, had been declared by the legal profession generally as unconstitutional and void, upon my responsibility alone I undertook the labor of proving that this great measure was constitutional and sound with a result which is well known to everybody. This was accomplished without one word of aid, encouragement or approbation by the local press.

"The next great work of paramount importance to this community which was begun by my initiative is the attempt I am now making to prevent the permanent consolidation by the Interstate Commerce Commission of the Mobile and Ohio Railroad in what is known as group ten, and to arrange for its consolidation with one of the great western systems of railroad which has no rail connection with any port upon the Gulf. The future life and prosperity of this city depends upon the success of this undertaking, and I am glad to report that satisfactory progress is being made. This work is being done by me without one word of aid, encouragement or approbation by the local press.

"The third and not least important public enterprise which I have initiated is to preserve to the people of Mobile and of the State of Alabama, and the South, the right to participate in the use of the power generated by the falling waters of the Tennessee river at Muscle Shoals.

"The pertinent facts in regard to this matter, briefly stated, are as follows:

"About two years ago a member of this commission introduced a resolution asking our approval of a bid of \$5,000,000 made by Henry Ford for the use and control of Muscle Shoals for one hundred years. There being no other bid at that time which seemed to be superior to this one, this resolution was passed by us. At the time this bid was made the United States Government was under contract with the Alabama Power Company to sell to it upon an appraised valuation certain improvements which the Government had erected upon the land of the Alabama Power Company upon the Warrior river about ninety miles from Muscle Shoals, known as the Gorgas Steam Plant. The Government in good faith carried out its contract with the Alabama Power Co.

and sold these improvements to this Company for about \$3,500,000. Whereupon Henry Ford withdrew his offer of \$5,000,000 which had been approved by us, leaving nothing upon which a claim of that approval could rest. I deny that any corrected bid of Mr. Ford was ever passed upon by the Mobile City Commission, and I assert that any statement to the contrary is a misstatement of fact.

"After that offer had been withdrawn the fact was developed that any subsequent offer Mr. Ford might make would be burdened with new conditions and the statement was made by an authorized representative of his, that any surplus of power over the requirements of the nitrate plants would be applied to the purposes of his own industries.

"In the meantime another and a greatly superior offer, both with respect to the purchase price and conditions under which the property would be operated, was tendered to the Secretary of War.

"When I became possessed of knowledge of these facts, again upon my own initiative and responsibility, on September 29, 1923, I addressed a communication to the President of the United States, protesting against Muscle Shoals being allowed to pass into the individual service of Mr. Ford's industries. Upon receiving a polite acknowledgement of this letter from the President's Secretary, I asked his permission to use the information contained therein in another way. After thanking me for the courtesy of asking his permission to do this, he raised no objection to my doing so.

"The MANUFACTURERS RECORD of January 17, 1924, had several illuminating articles in regard to all of the bids pending for use of Muscle Shoals, and the great editor of that publication said upon the subject of the main bid in competition with Mr. Ford:

"This offer, made jointly by nine of the power companies of the South, lifts the whole proposition far beyond anything which has been proposed or even conceived by those who are interested in the largest benefits to accrue to the entire South. It makes Mr. Ford's offer so insignificant by comparison that unless he is willing to meet this offer in every detail and go it one better in every respect, his possible connection with Muscle Shoals power is probably completely eliminated."

"These comments revived my interest in a wise settlement of this great question, and I sent a copy of the letter I had written to President Coolidge, to Mr. Richard H. Edmonds, the editor of the MANUFACTURERS RECORD.

"On January 24, 1924, I received notice from the Interstate Commerce Commission that the hearing on the consolidation of railroads in regard to which I had made an oral argument on January 10 before that Commission, would be reopened, and while I was considering the question of whether I should at once return to Washington, I understood that there would be a meeting of the House Committee on Military Affairs on January 26, 1924, and knowing that the best interest of the people of Mobile would be conserved by the acceptance of the offer of the power companies, under consideration, I determined to appear before the Committee.

"Immediately upon my return to Mobile from that trip I wrote a letter to the Chairman of this Committee which exactly states my position and which is as follows:

"Hon. Julius Kahn, Chairman,
House Military Affairs Committee,
Washington, D. C.

"Dear Sir:

"Referring to my appearance before your Committee on Saturday, January 26:

"On September 29, 1923, actuated alone by patriotic impulses, and a bounden duty, and without suggestion either direct or indirect from any of the bidders for Muscle Shoals, I addressed a letter to the President which contained the substance of my statement before your committee.

"The MANUFACTURERS RECORD of January 17, 1924, had several illuminating articles upon the subject of Muscle Shoals and the pending bids for its control, which renewed my interest in a wise and just settlement of this most im-

portant matter, and was the moving cause for my appearance before you.

'As I have been strongly attacked in certain antagonistic local papers for the position I have taken upon this subject, I crave your permission to make the following slight addition to what I said on January 26, in further explanation of the mental processes by which I reached these conclusions.

'It is a well recognized maxim of mathematics that things equal to the same thing are equal to each other. Now, as electricity, coal and oil all produce light, heat and power, they are by this rule and for many purposes interchangeable terms. As electricity is an unsubstantial and mysterious quantity, can we not therefore for the purposes of argument, and to get this proposition in a little more concrete form, reasonably assume that you have before you bids for the purchase or control of the equivalent of an inexhaustible coal mine, or oil field, which has cost the Government \$107,000,000?

'One of these bids is from the richest man in the world, and his offer in the published words of Congressman Hull, a member of your Committee, is to "pay only \$1,500,000 for the entire Muscle Shoals plant, which cost originally \$107,000,000." The use to which he will put this great power if he secures control of it, has been clearly stated by his representative, W. B. Mayo, who said in reply to an inquiry addressed to him by you, that with the exception of the small equivalent of coal or oil, which he is to apply to the production of nitrates, that this entire power will be used by Mr. Ford for his individual purposes.

'You have another bid under consideration, in regard to which Congressman Hull says "Not only does the proposed offer provide for a payment to the Government of approximately \$100,000,000 during the fifty-year-period of the lease as provided under the Federal Water Power Act, but the interest of the farmer in the potentialities of cheap fertilizer production at Muscle Shoals is thoroughly protected by the reservation of a large block of power provided under the plan for such arrangement as Congress may desire to make for manufacture of fertilizer in connection with the nitrate plants." Of much greater importance than the difference in amount which each of these bidders offer for Muscle Shoals is the purposes to which the power in excess of the requirements for the nitrate plants in each instance is to be applied.

'In the rich man's bid this surplus is to be used by himself.

'In the bid of the Associated Power Companies, this overplus is to be sold to all the people, at a price to be fixed by law.

'The power now going to waste at Muscle Shoals is a gift from Heaven, and I am not willing personally, nor are many of the people I represent willing, to be barred perpetually from participating in this greatest potential natural power in the State of Alabama.

'I therefore plead the cause of the bid which will permit the overplus of power from Muscle Shoals in excess of the requirements at the nitrate plants to be sold at a price to be fixed by law, to the people of Mobile, to the people of Alabama, and to all of the people within the reach of the wires which will radiate from this plant.

'Very respectfully,
(Signed) R. V. TAYLOR, Mayor.

'P. S.

'As our hearings close Wednesday, I am sending a copy of this letter to my friend Congressman Lister Hill, a member your Committee, with a request that he ask your permission to read same to the Committee, without of course in any way involving him in the position I have taken.'

R. V. T.

"My appearance before the Committee of the House, which was immediately followed by that of Douglas Taylor, Mayor of Huntsville, Ala., who made an argument similar to mine, was in behalf of the acceptance of what I believe to be the best bid for the Government and the people. While objecting to Mr. Ford's bid, I said that if he would so change it as to make it equal to the best bid I was for its acceptance. In advocating approval by this Committee of the best bid made to the Government for this property, I had the right to represent every honest man in the world. Of course the opinion which I expressed in support of my belief as to which of these bids was the best bid, were and could be personal only to myself. If these opinions were not well founded, they were inconsequential and could do no harm to any one. If, however, they presented truth in a convincing

form, I have made a contribution to the welfare of Mobile and the country generally.

"Commissioner Hartwell, in response to a question asked him on Tuesday, admitted that he did not know the terms of the Ford bid, and there are many well informed people now advocating its acceptance who have no greater information upon the subject.

"Neither the Commission of Mobile nor any of its commercial or civic organizations could have entered into an agreement with any section of this State that in exchange for votes in favor of the Port Amendment, or for any other consideration, a recommendation would be made to the officers of the Government to sell its property or its privileges at Muscle Shoals to any except the best bidder at the time the sale was made.

"I assume full individual responsibility for this and each of the other acts of mine referred to in this communication.

"In conclusion I beg to say that I am the Mayor of Mobile. This is a fact from which I cannot, nor do I desire during my term of office ever to separate myself. I have not in this or any other instance attempted to assume any right to speak for the city without authority."

The Southeast Would Be Greatly Benefitted by Proper Distribution of Muscle Shoals Power.

P. A. Tillery, Vice President and General Manager of the Carolina Power & Light Co., Raleigh, writes:

"I have read with a great deal of interest the articles with regard to Muscle Shoals which appeared in the January 17 issue of the MANUFACTURERS RECORD, and I have heard favorable comments from numerous sources with regard to the position the RECORD has taken with respect to this matter.

"I am thoroughly convinced myself that the Southeast, as a whole, would receive more benefit from the distribution of power from Muscle Shoals than would be possible under any other disposition of the power from that development. Being a native North Carolinian, and having been engaged in the hydro-electric power business for the past 15 years, I have been keenly interested in this matter, and I think the articles which have appeared in the MANUFACTURERS RECORD give a clearer conception of the situation than anything I have seen on the subject. I wish it was possible for every business man in the Southeast to read the matter you have published, as it would be very helpful from an educational standpoint.

"I am quite sure that the position of the RECORD will be indorsed by a great majority of those who read the paper."

A Farmer's Protest Against the Efforts of Politicians to Mislead the Public in Favor of Henry Ford.

Laurel Park Stock Farm,

Marion Junction, Ala., January 31.

Editor Manufacturers Record:

I note upon perusal of a reprint taken from the MANUFACTURERS RECORD of January 17 that you are throwing the influence of your splendid journal into an effort to secure a square deal for the Alabama Power Co.

It has been a source of wonder to me from the beginning of the controversy that our politicians should be so partisan in pressing the claims of Henry Ford and so blind to the rights of our own citizens who have given so freely of their time and talents to build up an institution which will prove of inestimable value to our whole state, and I can only account for it by the fact that they are politicians, and at this time that they are misguided ones, as I believe the

sentiment of the solid element of the central and southern portions of the state is in hearty sympathy with the Alabama Power Co.

It seems to me that you have shown up the weak points of Mr. Ford's offer so plainly that even those who have hitherto been blinded by the glamour of his millions must have their eyes opened.

As an individual citizen not connected in any manner with the Power Company, I wish to express my thanks for your intervention in favor of fair play towards this great corporation which has done and is still doing such a wonderful work in our great state.

With kindest regards and best wishes for the success of a journal which manifests the spirit of the MANUFACTURERS RECORD, I remain,

A. D. SUMMERS, Proprietor.

[From Charlotte, N. C. Observer, January 30.]

Muscle Shoals.

The Muscle Shoals proposition seems to be coming to a head, after two years and more of agitation and non-action. It would certainly appear that the Government has in its possession all the facts and the evidence that is possible of development.

Mr. Ford is honestly disgusted over the renewed request for him to again appear before the committee and go through the processes already gone through twice by himself and his representative. He reminds the committee that it has had his bid and all the facts connected therewith in soak for two years, and as he could not at this time add anything to it, his further appearance before the committee would only serve to yet longer delay final disposition of the matter. It is still up to the committee to take his proposition or leave it.

Meantime, the offer made by nine affiliated waterpower companies in the South appears to be gaining in popular favor. Professor Saville, of the University of North Carolina, backed by Manufacturer Cole, of Rockingham, has appeared before the committee in advocacy of the power plant proposition, mainly on the important score of power development. As a matter of fact, with Mr. Ford it is not a proposition for fertilizer manufacture, as so many people believe. Mr. Ford's main purpose, in case he should secure the property, is to use it in manufacture of automobiles, automobile parts, tractors, farm machinery and all other manufactures he is interested in for profit. In his bid, Mr. Ford agreed to organize a company for manufacture of fertilizers, this company to manufacture continually through the 100 years lease, "unless prevented by causes beyond its control." Mr. Ford, in reply to a question by Secretary Weeks, declined to guarantee continued manufacture of fertilizers during the life of the contract. "Of course," he said, "I am not going to stop it if I can manufacture it profitably."

As the situation stands in the Ford offer, if he should get the property under the terms suggested and he should find manufacture of fertilizer unprofitable, he could discontinue that manufacture and at the same time hold to the property. That is the troublesome point in the Ford offer. He could shut down the fertilizer plant and at the same time consume all the power produced for his private interests, leaving none for public consumption. Mr. Ford might not do that, yet it appears he would be at liberty to do it.

The correct idea of Muscle Shoals is in its possibilities for development of electric power, and for that reason the bid of \$100,000,000 for a 50-year lease on the Wilson Dam by the affiliated waterpower companies, is gaining in favor. Fertilizers may figure as a side issue in the situation, but it is in the final analysis a power situation. Professor Saville is on firm ground in the contention that the disposition of Muscle Shoals property is a matter that vitally concerns North Carolina. It is an admitted fact that Muscle Shoals and the steam stations which now support that proposed waterpower, or the steam stations that may be built in the future, constitute a natural resource belonging to the whole South. In the power which is to come from Muscle Shoals, North Carolina is one of the States entitled to a full share. The North Carolina professor is giving the committee some pointers which should command careful consideration. Any proposition for manufacture of fertilizers should be properly safeguarded and at the same time the South's legitimate claims on the power development should have full recognition.

[From Chicago Tribune, January 28.]

A Test of Government Sanity.

Analysis and comparison of the offer of the Associated Public Utility Power companies for a lease of Muscle Shoals with the proposals of Henry Ford, prepared by Representative Hull of Iowa and Government experts, and printed in detail in The Sunday Tribune, ought to close the subject in so far as the Ford offer is concerned.

In brief, the power companies ask a fifty-year lease, in compliance with the Federal water power law, while Ford demands a 100-year lease, in violation of that law. The power companies offer \$96,800,000 in the fifty-year period for what Ford would pay \$61,028,384. The power companies offer to pay interest, maintenance costs, and depreciation on Tennessee river headwater improvements, for which Ford offers nothing. The power companies offer power at cost for fertilizer, just as Ford does. The power companies offer a total of \$100,550,000 as against \$62,778,384 from Ford for the same privileges, with the added difference that the companies allow the Government to exercise its option on improvements while Ford demands them.

There is a similar difference evident in every item of the two proposals. For instance, the power companies offer \$4,500,000 for the steam plant at Muscle Shoals, leaving the Government with both nitrate plants, costing about \$80,000,000, while Ford offers \$1,527,512.75 for both nitrate plants plus the steam plant and Waco quarry. And the power companies' proposition would require no Government appropriations, while the Ford proposition would require further Government appropriation of \$28,500,000.

In such circumstances it would seem that if the Ford offer is approved over the power companies' offer, the Teapot Dome deal was a model of patriotism and righteousness.

[From Chicago Tribune, February 3.]

More Millions for Ford.

The house military affairs committee has voted to report out Henry Ford's offer for Muscle Shoals as embodied in the McKenzie bill and the Madden amendment, providing for duplication of the Gorgas plant recently sold to the Alabama Power company. Three other offers for Muscle Shoals, including that of the Associated Public Utility Power companies, which would pay the government millions more, and demand from it millions less in further improvements, were voted down.

In the circumstances it will be recalled that on the occasion of Mr. Ford's recent declaration of support of President Coolidge for reelection, some politicians made the charge that the President probably had given the automobile manufacturer at least a hint that the latter's ambition to obtain Muscle Shoals would be favorably considered. The Tribune doubted the accuracy of such a charge. But probably many persons who have studied and followed the Muscle Shoals project believed it. More will believe it now that this action has been taken by the military affairs committee.

It seems clear to one who has studied the Muscle Shoals situation ever since the Government first asked for bids, and to one who has neither a direct financial interest nor a direct political interest in any decision relating to it, that the Ford offer cannot compare in value to the Government or to the nation with the offer of the companies which would make of it the largest single unit of the proposed nation-wide super-power system. The latter offer, which the house committee has rejected in favor of the Ford offer, would eventually give cheap power to a dozen states, preserve the facilities for production of fertilizer or of nitrates for war emergencies, and pay the Government well. The Ford offer, on the other hand, would give the whole project to one man, who could sell it the next day, if he wished, and who probably would build a great manufacturing establishment in Alabama, operate a limited fertilizer plant, ignore the greater part of the surrounding territory, and pay the Government less.

Comparing the financial features of the two offers, we find that Ford would give \$62,778,384 over a period of years for the same properties and rights for which the power companies would give \$100,550,000. The Ford plan, as reported out by the committee, requires duplication of the Gorgas steam plant at a cost in the neighborhood of \$4,000,000, regardless of the fact that it has absolutely no bearing upon the making of fertilizer. The Gorgas plant has precisely the same relation to the complete Muscle Shoals development as a cement hoist has to a new building after construction is finished.

[From Agricultural Review of Kansas City, Mo.]

Muscle Shoals.

Muscle Shoals is a great water power unit, with navigation possibilities. It should be developed. The government has already spent well above a hundred million dollars on it. This investment must be protected, which means that the project must be completed, either by the government or by private parties. The region which can be economically served by that power is entitled to the use of it. The government should retain such control or recapture rights as will best serve the national defense in case of war.

Under a vague promise of supplying the farmers with cheap fertilizer, one of the most remarkable propaganda movements ever known has been carried on, which, if successful, will result in conferring upon one man, or a single family, a measure of special privilege wholly without precedent or parallel.

The Ford interests, by reason of the tremendous requirements of their business, can use the vast power of Muscle Shoals, and the natural resources of that region, with profit. No one else can. Under Henry Ford's offer, he could play with the fertilizer experiments at the government's expense, while using most of the power to turn the various mineral deposits and other gifts of nature into materials for making more motor cars, trucks and tractors. *There is nothing to indicate that the plan of development contemplated would be in the interest of the section which Muscle Shoals should serve. Quite the contrary.*—(Italics ours.)

It is amazing that so many Western Congressmen and Senators, whose farmer constituents do not need or use commercial fertilizer should be misled by the Ford propaganda.

Increase of 25 Per Cent in Latin American Trade.

The trade of the United States with Latin America for 1923 showing an increase of 25 per cent in exports and 29 per cent in imports over 1922 reflects the healthy development of inter-American trade reports the Bureau of Foreign and Domestic Commerce.

Total trade for the year with Latin America (excluding Porto Rico and the Virgin Islands) amounted to \$1,743,919,000. Of this \$693,627,000 were exports, which shows an increase in value of 115 per cent over 1913-14, whereas our exports to the rest of the world gained 68½ per cent. Imports from Latin America of \$1,050,292,000 represented generally, not only greater quantities, but better prices for our purchases in that region.

As in the past, the larger part of this trade was with our nearer neighbors, the West Indies and the countries bordering on the Caribbean Sea and the Gulf of Mexico. These furnished 63 per cent of the imports from and took 50 per cent of the exports to Latin America in 1923. This does not include our own islands in the West Indies (Porto Rico and the Virgin Islands), who alone purchased goods on the mainland to the value of over \$75,000,000. These markets are of particular interest to our farmers, for besides taking a fair share of the output of our factories and mills they are large buyers of the products of our farms. In 1923 they took nearly \$2,500,000 worth of butter and cheese, \$17,000,000 of lard and substitutes, upwards of \$10,000,000 of meat, \$4,500,000 of milk, \$18,000,000 of flour and nearly \$1,000,000 of rice. Mexico and Cuba alone bought from us nearly \$4,500,000 worth of eggs and Mexico took raw cotton to the value of nearly \$2,000,000. Sugar-growing Cuba took nearly a \$500,000 worth of sugar and other sweets and Mexico paid us nearly \$2,000,000 for gasoline.

Some of our more important purchases in Latin America in 1923 were: In Argentine, hides and skins, \$30,000,000; wool, nearly \$20,000,000, and many million dollars worth of linseed. Brazil, nearly \$116,000,000 for coffee (of our total imports of 1,407,856,000 pounds of coffee, 934,759,000 came from Brazil), goat skins over \$3,500,000, cacao, nearly \$5,000,000, and rubber over \$5,000,000. Columbia, some \$34,000,000 for coffee alone. Chile, around \$21,000,000 for copper and \$30,000,000 for nitrate. Cuba, around \$350,000,000 for sugar, \$25,000,000 for tobacco, \$2,750,000 for iron and \$3,000,000 for

copper ore. Central America, \$16,000,000 for coffee and \$1,500,000 for cabinet woods. British West Indies, \$3,250,000 for cacao. Dominican Republic, \$2,666,000 for cacao and over \$2,000,000 for sugar. Ecuador, over \$4,000,000 for cacao. Mexico, \$1,666,000 for raw cotton, \$8,000,000 for sisal, nearly \$17,000,000 for copper or, and upwards of \$50,000,000 for petroleum. Peru, \$2,333,000 for sugar and \$9,500,000 for copper. Uruguay, over \$5,000,000 for hides and nearly \$15,000,000 for wool. Venezuela, \$2,333,000 for cacao and \$8,000,000 for coffee.

American activity in the Latin American field is now characterized by a measure of permanency, ability, and tact that reflects credit on the best traditions of American enterprise. The recent withdrawals of several American concerns from direct representation in this area, which has caused some misgivings, furnishes no real basis for apprehension according to Dr. Klein, Director of the Bureau. This curtailment was the inevitable reaction from overexpansion and post-war conditions and has in no way affected the underlying soundness and stability of our position as indicated by the 27 per cent increase in our total trade with Latin America for 1923.

The increasing interest in Latin America as a field for the investment of American capital, as shown in the successful flotation in this country of South American securities as well as extension of American banking influence, will give a further impetus to the extension of this trade.

Since the Armistice American capital has continued to flow into Latin America in considerable amounts and although the total volume of loans, amounting to \$130,642,500, floated by these countries in the United States during 1923, showed a considerable decrease, compared with the total for the previous year, the January flotations of \$60,490,000, ushers in the new year auspiciously. Of this sum \$48,490,000 represented loans to Argentina, and \$12,000,000 to companies operating in Cuba.

Atlanta's Open Shop Plan Working to Full Advantage to Everybody.

Atlanta, Ga., February 1.

Editor Manufacturers Record:

In your issue of January 31 you mention the fortunate experience of San Francisco in building trades operations during 1923.

While we have no desire to detract one iota from San Francisco's glory we join with you in congratulating her—still we cannot keep silent on Atlanta's claims to at least an equal "place in the sun" with our sister city of the West.

Atlanta during 1923 had absolutely no general strike, and only one isolated job strike. In this instance 65 carpenters were involved in a dispute with the general contractor over the question of hours, and were "out" only three days. During this controversy the other building tradesmen worked without suspension at their various crafts.

With this exception Atlanta operated the full year through with no other labor difficulty noted; building trades, mechanical, manufacturing, or otherwise. The building totals for our city for 1923 were twenty-seven millions, and approximately forty millions for the Metropolitan district. That this was possible under open shop conditions would ordinarily demonstrate Atlanta's claim to equal mention with San Francisco.

Employers' Association of Atlanta,
J. P. McGRATH, Secretary.

[It affords us great pleasure to give space to this report of open shop workings in Atlanta, and we invite similar condensed reports from every other town or city in which the open shop rule has brought good results.—Editor MANUFACTURERS RECORD.]

Big Sugar Refinery at Texas City Nearing Completion.

Texas City, Tex., February 8—[Special.]—Work is proceeding rapidly on the plant of the Texas Sugar Refining Co., which when completed will have a capacity of about 1,000,000 pounds of refined sugar daily, with provision for expanding the capacity to 1,500,000 pounds. The site consists of 30 acres fronting for 1000 feet on deep water.

There are twelve buildings in the factory group, covering a ground area of about two acres and ranging in height from one to eight stories, giving a total floor area of more than 400,000 square feet. In addition there is a wharf where vessels may discharge crude sugar directly into the warehouse.

A general description of the plant, which is being built by a company capitalized at \$5,500,000, was published in the MANUFACTURERS RECORD of July 19, 1923. Alexander Smith

is president and Col. H. B. Moore, vice president, with directors as follows: Alexander Smith, of the banking firm of Peabody, Houghteling & Co., Inc., Chicago and New York; H. B. Moore of Texas City, Texas; Frank Andrews, of the firm of Andrews, Streetman, Logue & Mobley; John H. Kirby of the Kirby Lumber Co., Houston; Frank H. Anson, formerly vice president of the Atlantic Sugar Refineries and now president of one of the largest paper mills in the country; Edward P. Eastwick, Jr., engineer, of New York City.

Among the firms engaged in construction are: John Monks & Sons of New York; William Moore Co. of Texas City and Beaumont, pile driving; Ingalls Iron Works Company, of Birmingham, Ala., structural steel; Joubert & Goslin Machine Foundry Co., Birmingham, Ala., general equipment; E. P. Eastwick, Jr., Of New York City, engineer and designer.

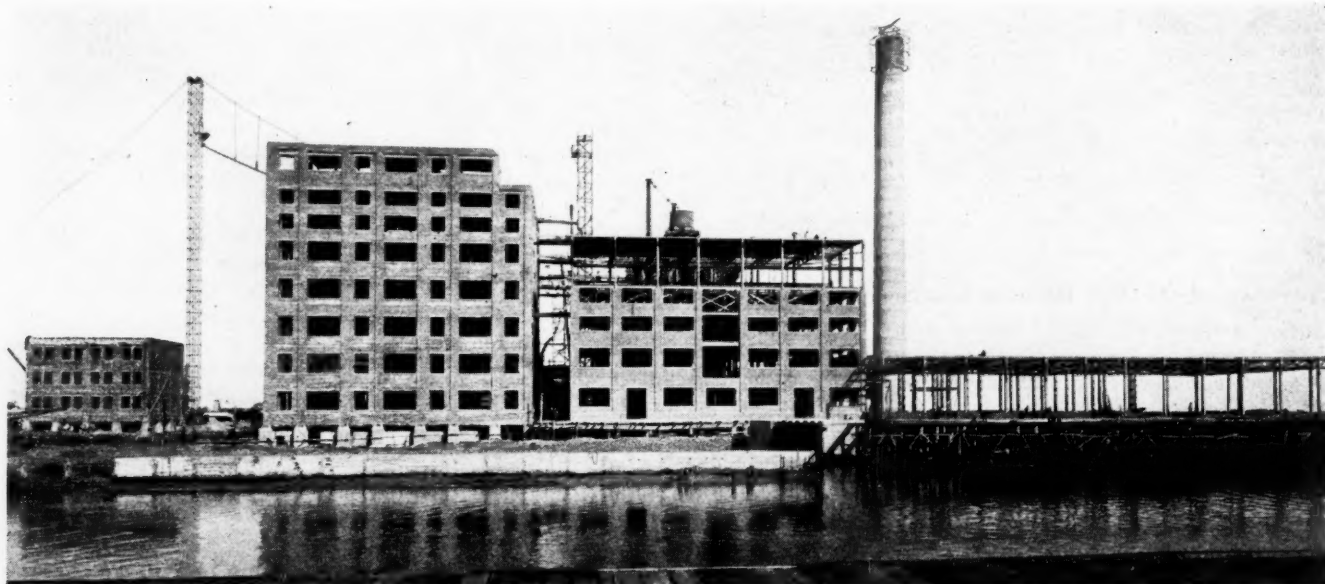


Photo by Mauer, Galveston.

VIEW SHOWING CONSTRUCTION PROGRESS ON SUGAR REFINERY AT TEXAS CITY, TEX.

Increase of 80 Per Cent in Mississippi's Wealth.

The principal forms of wealth in Mississippi were valued at \$2,177,795,000 on December 31, 1922, reports the Department of Commerce. Compared with Mississippi's wealth in 1912 of \$1,204,267,000, this is an increase in ten years of 80.8 per cent. Per capita values increased from \$650 to \$1216, or 87.1 per cent.

All classes of property increased in value from 1912 to 1922, except live stock, which decreased from \$89,798,000 to \$85,632,000, or 4.6 per cent. The estimated value of taxed real property and improvements increased from \$438,148,000 to \$1,042,435,000, or 137.9 per cent; exempt real property from \$38,475,000 to \$96,524,000, or 150.9 per cent; farm implements and machinery from \$18,375,000 to \$32,900,000, or 79.0 per cent; manufacturing machinery, tools, and implements from \$35,120,000 to \$55,242,000, or 57.3 per cent; and railroads and their equipment from \$173,711,000 to \$213,021,000, or 22.6 per cent. Privately owned transportation and transmission enterprises, other than railroads, increased in value from \$28,275,000 to \$42,862,000, or 51.6 per cent; stocks of goods, vehicles other than motor, furniture, and clothing from \$382,365,000 to \$580,584,000, or 51.8 per cent. Motor vehicles were estimated in 1922 at \$28,595,000.

Increase in money value is to some extent due to the rise in prices since 1912, and so far as that is the case they do not represent corresponding increases in the quantity of wealth.

Over 74 Per Cent Increase in Wealth of Louisiana in Ten Years.

Total principal forms of wealth in Louisiana, December 31, 1922, amounted to \$3,416,860,000, as reported in a preliminary estimate by the Department of Commerce. Compared with \$1,957,074,000 of wealth in Louisiana in 1912, this is an increase in ten years of 74.6 per cent. Per capita values increased from \$1139 to \$1855, or 62.9 per cent.

All classes of property increased in value from 1912 to 1922. The estimated value of taxed property and improvements increased from \$921,124,000 to \$1,351,902,000, or 46.8 per cent; exempt real property from \$107,865,000 to \$179,333,000, or 66.3 per cent; live stock from \$64,773,000 to \$65,511,000, or 1.1 per cent; farm implements and machinery from \$17,065,000 to \$28,139,000, or 64.9 per cent; manufacturing machinery, tools, and implements from \$88,308,000 to \$164,146,000, or 85.9 per cent; and railroads and their equipment from \$215,562,000 to \$264,484,000, or 22.7 per cent. Privately owned transportation and transmission enterprises, other than railroads, increased in value from \$93,442,000 to \$143,488,000, or 53.7 per cent; and stocks of goods, vehicles other than motor, furniture and clothing from \$449,035,000 to \$1,181,418,000, or 163.1 per cent. The value of motor vehicles in 1922 was \$38,439,000.

The increases in money value are to an extent due to the rise in prices which has taken place in recent years and so far as that is the case they do not represent corresponding increases in the quantity of wealth.

In Many Industries the South Is Far Ahead of United States in 1900, and in Some Is Ahead of 1910.

DIVERSITY OF MANUFACTURING AND AGRICULTURE IN SOUTH INDICATES GREAT POSSIBILITIES FOR CONTINUED EXPANSION IN BOTH.

By HOWARD L. CLARK.

Some two hundred different industries, represented by 64,350 establishments capitalized at over \$6,194,000,000 with annual products valued at over \$8,832,000,000, show that the South is making strides in diversifying its manufacturing.

In addition to this, other industries not listed separately are represented by 2102 establishments with a total capitalization of \$688,793,000 and producing goods to the value of \$972,431,000.

According to the last general census, the South had an aggregate of 66,500 manufacturing establishments with a total capitalization of over \$6,883,000,000—of which at that time less than one-seventh was in cotton manufacturing—which produced over \$9,805,000,000 worth of manufactured products.

These figures compiled by the MANUFACTURERS RECORD from the 1919 Census which explains that they do not cover establishments the products of which were valued at less than \$500, or manufacturing done in educational, eleemosynary, and penal institutions indicate the magnitude of the South's diversified manufactures. The term "establishments" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership. The "establishments" were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of these classes of products may be made in establishments in which it is not the product of chief value.

In the selected industries, the accompanying table while not covering every state in the South for each industry, gives the principal facts separately for the industries of the South. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal operations of individual concerns. The facts presented give an idea of the magnitude and variety of manufactures in the South though they are not an absolute tabulation of all the varied industries for each state in the South. They cover only the larger and more prominent lines of manufacturing. The extent of the industries not reported separately is realized when under the heading, "all other industries" there are reported 2102 establishments which produced nearly \$1,000,000,000 worth of goods.

In addition to the magnitude and variety of strictly manufacturing enterprises, there must be taken into consideration the 6965 mine, quarry, and oil well enterprises in the South which were capitalized at \$2,274,500,000 with an annual production of \$1,127,500,000 in 1919.

In point of capitalization and value, the first and foremost industry in the South of course is the manufacture of cotton goods. Ten Southern states reported in 1919 cotton goods manufactured by 722 establishments which had a capitalization of \$828,730,000 and products valued at \$918,534,000. With the addition of new plants during the building activity of recent months, cotton mills in the whole South now represent an investment of over \$1,000,000,000.

The dominant position held so long by the cotton industry in the South has caused many people to overlook the vast amount of other manufacturing operations carried on in the Southern states. More than 65,000 establishments capitalized at over \$6,000,000,000 with products valued at \$9,000,000,000 and the nearly 7000 mine, quarry, and oil well enterprises doing over \$1,000,000,000 of business, illustrate that the South is active in other lines of manufacturing than cotton goods production.

In the lumber and timber products industry nearly 17,000 establishments are located in the Southern states. The capital invested in lumber and timber products manufactured was in 1919 \$690,966,000, and the annual value of the products of this industry in 1919 was \$696,523,000. This industry is second only to cotton. In addition there were reported 1516 establishments, not including planing mills connected with saw mills, producing planing mill products valued at \$137,107,000.

The third largest single industry in the South is that of flour and grist mills. Establishments producing flour and grist mill products numbered 4292 in 1919. These reported a capitalization of \$203,786,000 and products valued at \$458,679,000.

Others of the larger industrial lines in the South include:

Six hundred and ninety-one cotton oil mills capitalized at \$177,896,000 and products valued at \$501,650,000.

One hundred and nineteen petroleum refining establishments capitalized at \$369,008,000 and products valued at \$492,065,000.

Slaughtering and meat packing with 236 establishments capitalized at \$155,145,000 and products valued at \$485,655,000.

Tobacco products 1198 establishments capitalized at \$240,923,000 and products valued at \$472,291,000.

Listed under the heading, "foundry and machine shop products," there are found in this industry in the South, 1758 establishments capitalized at \$169,860,000 with products valued at \$206,426,000, and under the heading of "iron and steel" a total of 225 establishments with an aggregate capital of \$324,141,000 and products valued at \$305,217,000.

Men's clothing establishments number 610 with products valued at \$149,771,000, and 429 fertilizer plants with products valued at \$204,917,000, and 490 furniture factories with a

production of over \$91,000,000 are also outstanding industries in the South.

Other industries running into the thousands of establishments covering practically every line of manufacture are scattered throughout the South. Many of these industries are represented by but few plants in different parts of the South. Some of them are the forerunners of the establishment of others of like character or in allied lines.

Industrial development is steadily going on throughout the South, not only the expansion of old established lines but the creation of new enterprises which in turn beget the establishment of still further manufacturing interests.

The South with its climatic, raw material, and fuel advantages, coupled with its growing population of skilled labor, is in a position to continue a steady industrial growth covering a wide range, and including the production of the finest class of finished manufactured articles and the production of textile and other machinery and products requiring the highest technical skill and workmanship.

The accompanying table compiled by the MANUFACTURERS RECORD summarizes in a general way the extent of the various manufacturing lines which have been reported on individually by the Census of 1919 for the sixteen Southern states and the District of Columbia.

Selected Industries in the South, 1919.

Industry.	Number of States Reporting.	Number of Establishments.	Capital Invested.	Value of Products.
Agricultural implements	8	86	\$14,345,455	\$13,712,060
Artificial flowers	1	4	139,895	159,453
Artificial limbs	4	20	484,528	752,080
Artificial stone products	15	302	2,621,762	3,376,617
Automobiles	1	8	9,594,433	62,624,650
Automobile bodies and parts	16	346	8,852,000	19,025,000
Automobile repairing ..	17	2,927	26,048,000	42,322,000
Awnings, tents and sails ..	14	132	5,457,629	10,770,000
Bags, other than paper, not including bags made in textile mills.	8	63	31,490,000	86,495,000
Baking powders and yeast	1	7	682,000	1,196,000
Baskets, rattan and willow ware	3	27	180,000	348,000
Belting, leather	2	11	819,000	1,120,000
Blackening, stains and dressings	2	20	213,000	479,000
Bone and carbon black.	2	23	7,114,000	3,410,000
Bookbinding and blank book making	8	86	3,150,000	4,460,000
Boots and shoes	5	89	61,121,000	117,927,000
Boot and shoe, cut stock ..	1	7	12,582,000	28,696,000
Boot and shoe, findings ..	1	12	3,040,000	4,576,000
Boxes, cigar	3	13	942,000	2,201,000
Boxes, paper and other, not elsewhere specified ..	10	122	18,805,000	28,078,000
Boxes, wooden packing.	15	249	29,010,000	43,850,000
Brass, bronze and copper products	6	66	7,792,000	15,795,000
Bread and other bakery products	17	4,091	66,204,000	177,636,000
Brick, tile, terra cotta and fireclay products.	16	634	70,489,000	48,144,000
Brooms	15	333	3,729,000	7,926,000
Brushes	3	22	2,942,000	3,693,000
Butter	11	209	9,420,000	48,548,000
Buttons	2	14	445,000	592,000
Canning and preserving, fish	6	82	2,576,000	3,289,000
Canning and preserving, fruits and vegetables ..	13	1,280	27,824,000	41,711,000
Canning and preserving, oysters	6	33	\$1,006,000	\$2,234,000
Carpets	1	8	37,000	95,000
Carriage and wagon materials	8	82	5,825,000	9,384,000
Carriages and wagons, including repairs	15	651	25,519,000	33,454,000
Cars and general shop construction and repairs by electric railroad companies	13	109	11,053,000	10,501,000
Cars and general shop construction and repairs by steam railroad companies	16	423	169,417,000	321,041,000
Cars, steam railroads, not including operations of railroad companies	1	8	23,687,000	46,854,000
Cement	2	10	22,227,000	16,482,000
Charcoal	2	17	255,000	222,000
Cheese	1	15	20,000	61,000
Chemicals	8	74	44,071,000	37,703,000
Cleansing and polishing preparations	7	61	655,000	1,267,000
Cloth, sponging and re-finishing	1	4	84,000	120,000
Clothing, men's	12	610	82,842,000	149,771,000
Clothing, men's button-holes	1	12	22,000	92,000
Clothing, women's	8	296	16,389,000	38,292,000
Coffee and spice, roasting and grinding	16	234	29,271,000	72,333,000
Coffins, burial cases and undertakers' goods ..	7	59	7,590,000	11,332,000
Coke, including gas house coke	5	108	53,517,000	45,032,000
Condensed milk	1	5	503,000	1,584,000
Confectionery and ice cream	17	1,345	60,110,000	114,807,000
Cooperage	12	354	15,783,000	25,681,000
Copper, tin and sheet iron work	17	1,032	15,633,000	32,276,000
Cordage and twine	3	13	3,857,000	6,461,000
Cordials, flavoring extracts	4	18	751,000	2,073,000
Cotton goods	10	722	828,730,000	918,534,000
Cutlery and edged tools ..	1	4	21,000	36,000
Dairymen's, poultrymen's and apiarist's, supplies ..	1	4	35,000	108,000
Dental goods	6	29	237,000	1,076,000
Druggists' preparations ..	10	104	11,393,000	14,900,000
Dyeing and finishing textiles, exclusive of that done in textile mills.	1	8	1,445,000	1,243,000
Dyestuffs and extracts, natural	3	32	14,603,000	19,432,000
Electrical machinery, apparatus and supplies ..	7	79	23,450,000	24,845,000
Electro-plating	4	30	217,000	513,000
Engines, steam, gas, and water	2	13	4,662,000	4,266,000
Engraving and die sinking	3	19	31,000	90,000
Engraving, steel and copper plate, including plate printing	7	56	671,000	1,422,000
Engraving, wood	1	7	13,000	44,000
Envelopes	1	7	1,295,000	1,952,000
Explosives	2	14	11,853,000	8,236,000
Fancy articles, not elsewhere specified	3	15	177,000	784,000
Ferroalloys	1	3	595,000	1,298,000
Fertilizers	12	429	231,613,000	204,917,000
Flavoring extracts	6	51	1,947,000	4,437,000
Flour mill and grist mill products	16	4,292	203,786,000	458,679,000
Food preparations, not elsewhere specified ..	17	417	56,206,000	178,692,000
Foundry and machine shop products:				
Boiler shops	9	92	7,685,000	12,003,000

Industry.	Number of States Reporting.	Number of Estab- lishments.	Capital Invested	Value of Products.	Industry.	Number of States Reporting.	Number of Estab- lishments.	Capital Invested	Value of Products.
Foundries	10	118	\$13,764,000	\$22,047,000	Musical instruments and materials	1	5	\$33,000	\$27,000
Boiler shop and foundry combined	5	59	6,019,000	9,097,000	Oil and cake, cottonseed Oil, not elsewhere speci- fied	10	691	177,896,000	501,650,000
Machine shops	17	1,264	108,356,000	126,533,000	.....	6	49	13,331,000	20,329,000
Machine shop and foundry combined ..	17	225	34,036,000	36,746,000	Oleomargarine, and other butter substi- tutes	1	4	1,421,000	4,415,000
Fur goods	3	39	1,265,000	2,206,000	Optical goods	12	102	4,375,000	4,236,000
Furnishing goods, men's	2	45	11,254,000	18,279,000	Paints	8	94	16,217,000	25,603,000
Furniture	16	490	61,485,000	91,703,000	Paper and wood pulp ..	3	29	27,532,000	28,406,000
Gas and electric fix- tures	2	10	1,028,000	1,851,000	Patent medicines and compounds	17	596	26,965,000	48,526,000
Gas, illuminating and heating	12	186	167,357,000	35,985,000	Paving materials	13	227	9,836,000	9,822,000
Gas machines, and gas water meters	1	4	1,056,000	1,350,000	Peanuts, graded, roasted, cleaning and shelling	3	45	8,504,000	27,292,000
Glass	6	112	52,523,000	60,204,000	Perfumery and cosmetics	8	66	2,222,000	4,315,000
Glass, cutting, staining and ornamenting	4	39	737,000	1,226,000	Petroleum refining	4	119	369,008,000	492,065,000
Gloves and mittens, not including gloves made in textile mills	3	12	778,000	1,586,000	Photo-engraving	10	64	1,283,000	2,909,000
Graphite, ground and refined	1	9	1,809,000	337,000	Photographic apparatus	1	5	140,000	194,000
Grease and tallow	5	26	1,466,000	3,445,000	Photographic materials	1	6	1,075,000	1,357,000
Grindstones	1	4	150,000	256,000	Pickles and preserves ..	8	104	8,898,000	16,926,000
Hair work	1	3	32,000	79,000	Pipes, tobacco	1	7	500,000	943,000
Hand stamps	7	33	319,000	646,000	Plumbers' supplies, not elsewhere specified ..	1	5	456,000	983,000
Hardware	3	19	2,380,000	3,063,000	Pottery	9	79	10,163,000	11,024,000
Hats and caps	6	80	7,990,000	9,177,000	Poultry, killing and dressing, not in meat packing establishments.	3	36	822,000	5,305,000
House furnishing goods, not elsewhere specified	1	14	825,000	1,353,000	Printing and publishing, book and job	17	2,326	59,015,000	89,575,000
Ice, manufactured	17	1,444	118,346,000	58,224,000	Printing and publishing, music	1	7	488,000	285,000
Instruments, professional and scientific	3	11	1,356,000	1,709,000	Printing and publishing, newspapers and peri- odicals	17	4,449	88,755,000	140,836,000
Iron and steel, cast iron pipe	1	21	12,365,000	18,784,000	Printing materials	2	7	160,000	259,000
Iron and steel, blast furnaces	5	49	116,592,000	84,211,000	Refrigerators	1	7	953,000	1,527,000
Iron and Steel, steel works and rolling mills	5	44	202,971,000	200,757,000	Regalia, society badges and emblems	2	11	207,000	338,000
Iron and steel, welding	12	111	913,000	1,465,000	Rice, cleaning and pol- ishing	3	65	18,921,000	68,117,000
Jewelry	8	96	1,652,000	3,574,000	Roofing materials	3	10	437,000	477,000
Knit goods	7	253	69,102,000	89,558,000	Rubber tires, tools and rubber goods not else- where specified	4	24	4,833,000	5,573,000
Labels and tags	1	7	209,000	435,000	Saddlery and harness ..	15	493	20,403,000	37,909,000
Leather goods not else- where specified	3	12	454,000	915,000	Salt	2	7	1,895,000	1,229,000
Leather, tanned, curried and finished	9	89	74,037,000	92,090,000	Sausage, not made in meat packing estab- lishments	7	71	961,000	3,739,000
Lime	8	135	12,769,000	10,643,000	Saws	1	3	108,000	922,000
Liquors, distilled	1	6	12,113,000	8,247,000	Shipbuilding, steel	5	22	135,697,000	131,143,000
Liquors, malt	6	53	69,438,000	45,258,000	Shipbuilding, wood	10	220	26,553,000	49,054,000
Lithographing	4	32	5,535,000	5,380,000	Shirts	7	95	11,180,000	26,309,000
Looking glass and pic- ture frames	4	33	451,000	665,000	Showcases	3	17	938,000	1,544,000
Lumber and timber products	16	16,997	690,966,000	696,523,000	Signs and advertising novelties	8	62	1,264,000	2,119,000
Lumber, planing mill products, not including planing mills connect- ed with saw mills ...	17	1,516	89,858,000	137,107,000	Silk goods, including throwsters	3	19	3,243,000	5,469,000
Machine tools	2	12	1,095,000	1,458,000	Silversmithing and sil- verware	1	4	766,000	421,000
Marble and stone work	17	968	20,911,000	24,480,000	Slaughtering and meat packing	14	236	155,145,000	485,655,000
Mattresses and spring beds	17	303	11,214,000	21,345,000	Smelting and refining, zinc	2	14	13,847,000	23,941,000
Millinery and lace goods, not elsewhere specified	6	88	3,434,000	9,685,000	Soap	2	13	4,064,000	8,626,000
Mill stones	1	3	6,000	28,000	Stamped ware, not else- where specified	3	19	25,727,000	22,686,000
Mineral and carbonated waters	17	1,830	34,206,000	60,881,000	Statuary and art goods	1	9	85,000	172,000
Minerals and earths, ground or otherwise ..	10	106	10,645,000	8,986,000	Steam fittings, and steam and hot water heating apparatus	1	6	2,214,000	2,597,000
Mirrors, framed and un- framed, not elsewhere specified	5	23	1,276,000	2,888,000	Sterotyping and electro- plating	3	13	330,000	812,000
Models and patterns, not including paper pat- terns	4	42	357,000	720,000	Stoves and hot air fur- naces	8	68	20,992,000	26,701,000
Mucilage, paste and other adhesives	1	6	180,000	531,000	Structural iron work, not made in steel works or rolling mills	10	112	15,712,000	21,935,000
					Sugar, cane	2	195	77,355,000	141,849,000

Industry.	Number of States Reporting.	Number of Estab- lishments.	Capital Invested	Value of Products.
Surgical appliances ...	1	17	\$533,000	\$1,060,000
Textile machinery and parts	5	37	1,576,000	2,307,000
Tinware, not elsewhere specified	4	50	30,012,000	35,520,000
Tobacco, chewing and smoking	4	60	77,686,000	113,735,000
Tobacco, cigars and cig- arettes	15	1,138	163,237,000	358,556,000
Tools not elsewhere specified	2	26	1,569,000	1,581,000
Toys and games	2	22	781,000	1,390,000
Trunks and valises ...	5	61	8,018,000	13,983,000
Turpentine and rosin ...	8	1,191	33,596,000	53,051,000
Umbrellas and canes ...	2	12	1,276,000	2,961,000
Upholstering material, excelsior	4	41	1,077,000	1,698,000
Varnishes	2	10	853,000	2,117,000
Vinegar and cider	6	48	3,000,000	4,025,000
Wall plaster and com- position flooring	1	3	1,158,000	1,098,000
Washing machines and clothes wringers	1	8	635,000	1,053,000
Window and door screens	8	43	2,400,000	2,323,000
Window shades and fix- tures	1	4	296,000	642,000
Wire work, not else- where specified	6	54	6,182,000	8,294,000
Wood distillation	3	14	2,747,000	3,414,000
Wood, turned and carved	10	122	4,460,000	8,071,000
Wood preserving	4	21	10,582,000	11,134,000
Wooden goods, not else- where specified	2	7	149,000	226,000
Woolen goods	6	48	12,894,000	17,205,000
All other industries ..	17	2,102	688,793,000	972,431,000
Mine, quarry and well enterprises .....	..6,965	2,274	510,000	1,127,575,000

To the South's manufacturing activity should be added its building and construction operations which in 1923 totaled over \$750,000,000 requiring enormous quantities of building and construction materials and supplies of every kind.

Moreover, the South mined over 158,000,000 tons of coal in 1922 compared with 71,482,000 tons for the whole country in 1880.

The South produced over 325,000,000 barrels of oil in 1922 compared with 209,556,000 barrels in the whole country in 1910.

In other words, the South produces about 60 per cent of the country's output of petroleum, or 35 per cent of the world's production, and in addition 60 per cent of the country's natural gas output.

Southern pine continues to be the most important single factor in the lumber production of the country. The South Atlantic, East Gulf, and lower Mississippi States have about 25 per cent of all the saw timber in the United States, and the South is producing annually about half of the lumber cut of the country.

The South produces 99 per cent of the country's output of sulphur which in 1922 amounted to about 2,000,000 tons.

The South produces practically all the country's naval stores, which is between 65 and 75 per cent of the world's production of turpentine and rosin.

The South produces about all of the country's bauxite, and Fuller's earth, and 99 per cent of the country's phosphate rock output which was 2,418,000 long tons in 1922.

The South produced 240,000 tons of lead and 260,000 tons

of zinc in 1923 which is respectively 45 and 42 per cent of the country's production.

Furthermore, the South produces from 33 to 95 per cent of the country's carbon black from natural gas, crude barytes; aluminum; natural gas gasoline; commercial fertilizers; graphite; mica; quartz; asphalt; feldspar; pyrites; talc and soapstone, and in fact of 82 mineral products of the United States listed by the Geological Survey, the South produced 61, and for 34 of these products the leading or next to the leading producing state is in the South.

The South has vast resources of undeveloped coal and iron, water-powers, and abundant supplies of practically all the important minerals. That the South is developing these raw materials on an expanding scale is realized when it is seen that the South produces one-third of the total mineral products' value of the entire country.

While the foregoing array of manufacturing and mining facts represent but a partial survey of the more important industries and mining activities in the South, they, nevertheless, show the magnitude and variety of such enterprises established in a section erroneously thought by many people outside of the South to be only a cotton growing region. While some business men outside of the South have the mistaken idea that the South "is nothing but an immense cotton field," as some have lately said, others think of the South only as a "cotton mill section." Most of these people simply lack information about the South although they may be particularly well informed regarding the questions of the day and about interests bearing directly on their work. They have failed to become informed about the extent of Southern development and the opportunities in the South in diversified manufacturing and farming.

The facts and figures presented fully illustrate the South's growing industrial development and the great variety of its products showing that though cotton manufacturing is an important industrial factor in the South's development, and it is right that it should be, there is a vast field for industrial growth in other lines of manufacturing which has already made such substantial progress.

Of course the South's cotton crop dominates the world's cotton markets and it means enormous wealth to the South and to the country. The South's exports of raw cotton is the saving factor in our favorable balance of trade with foreign countries. But when people think of the South only as "an immense cotton field," they need to study the production figures in the table on the following page showing the extent and variety of some of the principal crops produced in the South.

In this partial list of Southern crops, one realizes that the South is not a "one crop" section. In fact it has produced a greater variety of crops than any other part of the country because of climatic conditions allowing for long growing seasons.

The South also produces a large quantity of meat and meat products, having 35 per cent of the country's swine, 33 per cent of the country's cattle, and 19 per cent of the country's sheep.

Diversification of crops, abundant raw materials, power resources, and railroad facilities, offer a solid foundation on which its industrial development is founded.

Diversification of Southern Crops.

Crop.	Five-Year Average Production in South	South's Percentage of Country's Total Production.
Corn, bushels	975,489,000	33
Wheat, bushels	161,071,000	18
Oats, bushels	182,943,000	14
Barley, bushels	5,413,000	3
Rye, bushels	3,381,000	4
Buckwheat, bushels	1,681,000	11
Rice, bushels	34,351,000	80
Grain Sorghums, bushels ...	75,927,000	83
Potatoes, bushels	62,757,000	16
Sweet Potatoes, bushels ...	92,233,000	92
Hay, tons	16,822,000	16
Tobacco, pounds	1,119,344,000	81
Cotton, bales	10,812,000	98
Cotton Seed, tons	4,813,000	98
Peanuts, pounds	799,318,000	100
Sorghum Syrup, gallons	36,986,000	90
Cane Sugar, pounds	436,314,000	100
Sugar Cane Syrup, gallons ..	39,229,000	100
Molasses, gallons	20,379,000	100
Clover Seed, bushels	153,200	9
Broom Corn, tons	29,580	68
Soy Beans, bushels	2,226,000	89
Cow Peas, bushels	10,338,000	97
Apples, bushels	36,609,000	21
Peaches, bushels	18,341,000	41
Pears, bushels	2,507,000	17
Strawberries, cars shipped ..	9,825	77
Citrus Fruits, boxes	12,000,000	50
Watermelons, cars	50,000	80
Cantaloupes, crates	2,300,000	16
Lettuce, crates	2,600,000	16
Sweet corn for canning, tons	58,200	10
Commercial Onions, bushels.	3,000,000	14
Cabbage, tons	231,000	38
Celery, crates	900,000	26

The South's estimated area of all farm crops is in the neighborhood of 130,250,000 acres which is over 35 per cent of the total crop area of the United States. Out of this acreage only about one-fourth of the farming area in the South is devoted to cotton. In 1922 the South on 35 per cent of the farm acreage of the country produced crops amounting to 42 per cent of the country's aggregate crop values.

The South produces about one-third of the corn crop of the United States and the acreage in corn in 1922 was 11,500,000 more than was planted to cotton. The total area in the South of three principal grain crops, corn, wheat, and oats, is approximately 63,250,000 acres, compared with 35,000,000 in cotton.

In addition to the staple farm crops, the South annually produces for shipment to the North and West, in addition to what it retains for local consumption about 500,000 carloads of winter and spring vegetables, berries and fruits and cotton seed products.

Southern watermelons and cantaloupes are also an important crop in many sections of the South. In the one state of Florida, there are produced annually over 31 field crops, over 15 truck crops, and over 18 fruit crops including its immense citrus fruit output. Other Southern states are setting a record for crop diversification almost as high.

Taken in the aggregate, no other region in the United States can compare with the South in its diversification of crops, manufacturing and mining development, and its potentialities.

North Carolina's Wealth \$4,543,110,000—Over Two-and-a-half Times the Value Reported in 1912.

The Department of Commerce announces for the State of North Carolina, its preliminary estimate of the value, December 31, 1922, of the principal forms of wealth, the total amounting to \$4,543,110,000, as compared with \$1,647,781,000 in 1912, an increase of 175.7 per cent. Per capita values increased from \$724 to \$1703, or 135.2 per cent.

All classes of property increased in value from 1912 to 1922. The estimated value of taxed real property and improvements increased from \$637,960,000 to \$2,209,432,000, or 246.3 per cent; exempt real property from \$62,340,000 to \$161,933,000, or 159.8 per cent; live stock from \$85,068,000 to \$103,397,000, or 21.5 per cent; farm implements and machinery from \$20,315,000 to \$33,853,000, or 66.6 per cent; manufacturing machinery, tools, and implements from \$85,120,000 to \$238,327,000, or 180.0 per cent; and railroads and their equipment from \$204,606,000 to \$251,694,000, or 23.0 per cent. Privately owned transmission and transportation enterprises, other than railroads, increased in value from \$44,411,000 to \$81,257,000, or 83.0 per cent; and stocks of goods, vehicles other than motor, furniture, and clothing from \$507,961,000 to \$1,395,438,000, or 174.7 per cent. The value of motor vehicles in 1922 was \$67,779,000.

Increases in money value are to an extent due to the rise in prices since 1912 and do not represent the exact increase in quantity of wealth.

Wealth of West Virginia Nearly Doubles in Ten Years.

As estimated by the Department of Commerce, the total value of the principal forms of wealth of West Virginia, December 31, 1922, was \$4,677,919,000, as compared with \$2,404,346,000 in 1912, an increase of 94.6 per cent. Per capita values increased from \$1879 to \$3040, or 61.8 per cent.

All classes of property increased in value from 1912 to 1922. The estimated value of taxed real property and improvements increased from \$1,275,146,000 to \$3,019,133,000, or 136.8 per cent; exempt real property from \$124,044,000 to \$231,560,000, or 86.7 per cent; live stock from \$55,993,000 to \$58,043,000, or 3.7 per cent; farm implements and machinery from \$7,406,000 to \$13,155,000, or 77.6 per cent; manufacturing machinery, tools, and implements from \$60,277,000 to \$119,953,000, or 99.0 per cent; and railroads and their equipment from \$357,238,000 to \$441,524,000, or 23.6 per cent. Privately owned transportation and transmission enterprises, other than railroads, increased in value from \$67,306,000 to \$133,319,000, or 98.1 per cent; and stocks of goods, vehicles other than motor, furniture, and clothing from \$456,936,000 to \$619,935,000, or 35.7 per cent. No comparison is possible for the value of motor vehicles, which was estimated in 1922 at \$41,297,000, because no separate estimate was made in 1912.

Limited Sweet Potato Stocks.

Available supplies of good sweet potatoes apparently are much less than a year ago, reports the Agricultural Department. Wholesale prices recently have been about steady, but carlot shipments are gradually decreasing until the close of the season in May. Many storage houses in Georgia are empty and a considerable number in Alabama are reported as discontinued.

Total holdings in 800 houses are about 60 per cent less than a year ago. About 85 plants in the Middle Atlantic States had scarcely more than one-third as many sweet potatoes as in December 1922. The same condition prevailed in 270 storage houses in the South Atlantic region, and 380 houses in other Southern states reported stocks less than half those of a year ago.

Has a Boll Weevil-Proof Cotton Been Developed?

By ARCHIE RICHARDSON, East Lake, Decatur, Ga.

By increasing the thickness of the hull of the cotton boll through a process of breeding extending over ten years, J. V. Cochran, of Marietta, Georgia, has produced a cotton that practically defies the boll weevil. With this cotton, the use of poison has been found necessary only while the stalks are young. After the bolls have developed, the yield is assured without the further use of poison, for the thickness of the hull furnishes full protection to the precious staple inside. The bolls develop to the top of the stalk.

On a two and a half acre experimental patch, Mr. Cochran produced three bales last year. Numbers of his neighbors



J. V. COCHRAN AND A STALK OF HIS COTTON.

with whom he shared his seed obtained 2000 to 2500 pounds of seed cotton, which linted 39 to 40 per cent, to the acre.

The yield from this cotton is said to have averaged double that obtained from other cotton, even where poison was used throughout the season, in North Georgia.

Mr. Cochran's cotton has won a blue ribbon at every fair at which it has been exhibited. He was awarded the first premium at the Southeastern Fair for the last three successive years, and received a similar award last fall at the Georgia State Fair at Macon, where his cotton was shown for the first time.

The length of the staple is about one and one-sixteenth inches.

The idea that the hull of the cotton boll could be made so thick that it could not be penetrated by the boll weevil came to Mr. Cochran about ten years ago when he read of the ravages of the pest in the states to the west and realized that it was only a matter of years when the Georgia farmers would be faced by the weevil problem. Setting himself to the task of producing a thick balled cotton, he selected three varieties with which he was familiar and planted some of

each in his garden. The stalks were carefully watched over, and grew as strong and as large as good soil, careful cultivation, and proper fertilizer and moisture could make them.

When the blossoms came, the pollen of each flower was daily mixed with that of another, so that when the bolls opened there were not three varieties of cotton but only one.

Only the thickest-hulled and best-formed bolls were selected for seed. The lint was separated from the seed by hand, and the small and poorly formed seed rejected.

The following fall, the best bolls and the best seed were selected for planting. The plan was followed year by year, and each year larger and thicker-hulled bolls were grown.

When the boll weevil finally reached North Georgia, this cotton was ready to resist it, and the yield was almost as good as in previous years. On adjoining farms, the cotton was destroyed or seriously damaged, except where poison was persistently used. In the meantime, Mr. Cochran had divided his seed with some of his neighbors, and their fields that were planted in the thick-hulled variety produced almost their normal yields.

Calcium arsenate was used by Mr. Cochran while his cotton was small, giving the bolls an opportunity to obtain their growth, and then discontinued. Other cotton, however, was practically a total loss when the use of the poison was discontinued at the same time. Comparison of a field planted in the thick-hulled variety with fields planted in other varieties late last fall gave unmistakable evidence of the ability of the former to resist the weevil.

Practically every green boll in the field was literally peppered with holes around the stem—the bolls were the only thing in the field that remained green at the time—but when a boll was cut open it was found that, with rare exceptions, the cotton was undamaged. A few bolls had shriveled up as a result of being attacked by the weevil, but these were all on the top branches, and were attacked when small and tender and long after the use of the poison had been discontinued. Some bolls—and these were scarce—had lost one lock to the weevil while the other four remained undamaged; there were usually five locks to a boll. Most of the bolls, however, opened perfectly, even though they were perforated at the base all around the stem. The weevil had done its best to get through to the lint inside, and failed.

Every damaged boll found was near the top of the stalk, and was attacked before it had attained its growth. Under similar conditions, ordinary cotton probably would have been a total loss. In surrounding fields, there were found few stalks that had well developed bolls on the upper branches. Lower down on the stalk, none but perfectly formed burrs could be found.

An interesting comparison was afforded by a field next to Mr. Cochran's. The land was less fertile, and commercial fertilizer was used less generously. It was fine cotton to weed, but the yield was only about one half of Mr. Cochran's, despite the fact that poison was used throughout the season. The yield was confined to the lower portions of the stalk, the upper branches being entirely barren after frost had destroyed the leaves.

Will Build 100 Dwellings to Cost \$750,000.

Richmond, Va.—Recently incorporated, the new real estate firm of Bache, Moore & Miller, Inc. of this city, is having plans made by a local architect for the erection of 100 dwellings in the West End and North Side for a client, at a cost of \$750,000. It is stated that the firm will handle the property and sell it for the promoters.

Four Plans Submitted for Improvements to Port of Mobile Under \$10,000,000 Seaport Enabling Act.

[Special Correspondence Manufacturers Record.]

Mobile, Ala., February 9.

Four alternative projects for improvements to be made at the port of Mobile under the Alabama Seaport Amendment and enabling act have been prepared by General William L. Sibert, president, general manager and chief engineer of the State Docks Commission. These tentative plans of operation have been approved by the associate commissioners, former Governor Charles Henderson and Dr. F. L. Blair.

Two of the projects proposed have been submitted to the board of appraisers recently appointed by Governor William W. Brandon under the provisions of the enabling act. This board is composed of George Gordon Crawford, president of the Tennessee Coal, Iron & Railroad Co., Birmingham; Gordon Smith, wholesale baker and financier, Mobile, and John W. Durr, wholesale druggist, Montgomery, who have been requested to value the land needed in carrying out both of the plans submitted for port improvement, such valuations to be made at any time after February 14, 1924.

An official statement by the docks commission, gives the information that Plan No. 1 involves moving the Louisville & Nashville Railroad west between One-Mile creek and Three-Mile creek, connecting with the present tracks at the foot of Adams street. In this statement General Sibert says:

"The distance that such track is moved west would make docks and slips 1600 feet long, practicable. Ships would enter such slips directly from the Mobile river.

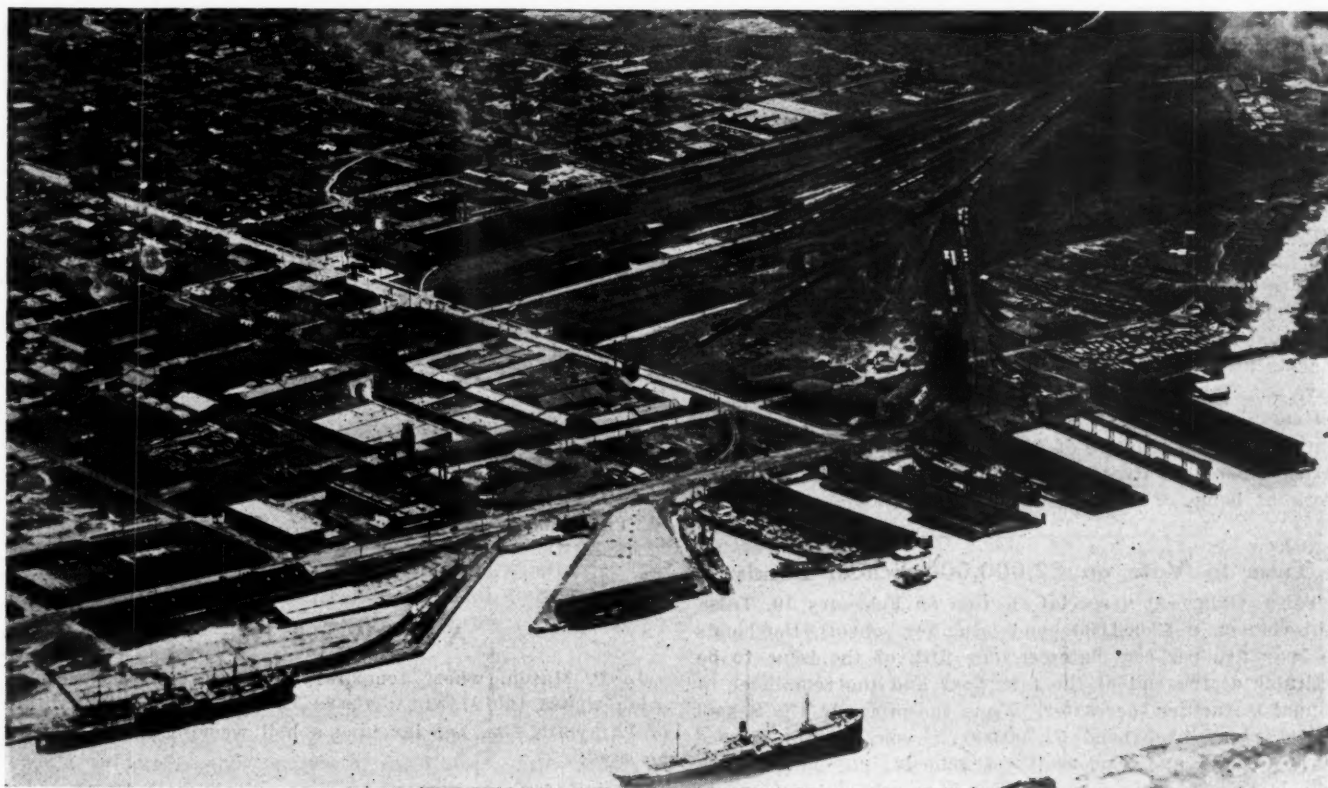
"The other plan involves dredging a canal west of the Louisville & Nashville Railroad connecting One-Mile and Three-Mile creeks and constructing a dock system in the swamp land in and near the Laurent plantation addition.

Navigation would go through bridges on the Louisville & Nashville Railroad, ships passing in via One-Mile Creek and coming out via Three-Mile Creek.

"If the price of land and cost of work necessary to make the less expensive of these sites available for docks construction is more than a dock project can commercially bear, the commission will consider two other projects that seem feasible."

The land on Mobile river front between the two creeks which flow into the river from a westerly direction is a strip of swamp having a frontage on the ship channel or approximately 6000 feet. It is practically unoccupied, except that the Louisville & Nashville Railroad's right of way extends along the front at a point near the water line. The Southern Railway and the Mobile & Ohio Railroad have their freight and passenger terminals, including classification yards, docks and warehouses in that part of the city immediately adjoining the site. The Gulf, Mobile and Northern Railway terminals are at Choctaw point, at the southern extremity of the harbor, though it now has physical connection with the other railroads entering Mobile, both along the harbor front and by way of the Bay Shore Branch of the Mobile & Ohio Railroad which practically half-circles the city near its western limits. The Alabama, Tennessee & Northern Railroad enters Mobile over the line of the Southern Railway, under a trackage agreement.

Approximately 300 feet north of the mouth of Three-Mile Creek is the mouth of Chickasaw Creek upon the west bank of which stream is situated the shipbuilding plant where a subsidiary company of the United States Steel Corporation



Official Photo United States Army Air Service.

VIEW OF UPPER MOBILE HARBOR.

Mouth of One-Mile Creek shown at extreme right. On water front—Southern Railway and Mobile & Ohio Railroad wharves. Back of these the grain elevator and black strap tanks. In center of picture—classification yards and terminal station.

built eight steel steamships of from 9600 to 10,000 tons and many steel barges, in 1920 and 1921. The plant is now idle because of the slack demand for new ocean tonnage.

The greater part of Mobile's improved water frontage originally was of the same general character of swamp as that which General Sibert and his associates of the State Docks Commission propose for improvement under their Plan No. 1 and Plan No. 2. No intimation is given as to the other alternative plans. The swamp arises but a few feet above the high tide level and occasionally is covered with water in time of storms. Its soil is of silt, underlain with sea sand and is easily removed by suction dredges and conveyed through pipes to points to be built up.

There are no serious engineering difficulties to be encountered, the problem of railroad connections is not hard to solve, the right of condemnation after appraisal is in the hands of the commission as a check against exorbitant prices which might be charged for the land and, in addition, General Sibert states that the railroads have shown a willingness to co-operate in the carrying out of the tentative plans of the Docks Commission.

Preparatory work for the construction of state-owned terminals has not progressed to the point where the character of facilities to be provided or the materials to be used in their building has been announced, though these are subjects to which the commission has given consideration from the beginning.

Two points, however, have been determined. One is that the structures in which the state is to invest its money will be of the most permanent character; that stability and endurance will be of paramount consideration. The other is, that the state-owned docks, warehouses and other units will be built high, above the highest known storm-water levels.

Under the Seaport Enabling Act, the Governor of Alabama is given a supervisory authority in the matters of selecting and purchasing land, issuing bonds for port improvement, adopting plans and specifications and in determining the kinds of terminals to be constructed. Governor Brandon appointed the Docks Commission and named General Sibert its president, general manager and chief engineer. The Governor long has been an advocate of the improvement of the port by the state and will facilitate the work in hand, it is stated with authority.

One million dollars is available for use by the commission during the first year following the passage of the act in September, 1923. Then \$4,000,000 more may be expended over the following four years. This first \$5,000,000 must show a profit on the investment of five per cent before the remaining \$5,000,000 may be expended, under the terms of the act adopted by the latest Alabama legislature. This is the big problem to which General Sibert and his associates have put their minds and wills.

General Sibert, who has retired from service in the United States Army, is a native of Alabama and it is known that he refused more lucrative employment in order to do this great work at home.

Tulsa to Vote on \$2,000,000 School Bonds.

Tulsa, Okla.—At a special election on February 19, Tulsa will vote on a \$2,000,000 bond issue for schools, the bonds to bear five per cent interest, one fifth of the issue to be retireable at the end of the fifth year and the remainder in annual maturities thereafter. From the proceeds, the School Board plans to expend \$1,500,000 to convert the Horace Mann, Osage and Eugene Field schools into junior high schools and erect two new junior high school buildings in the northeastern and southeastern sections of the city.

The remaining \$500,000 will be expended for improvements to present grade school buildings and the erection of new buildings in outlying locations.

January Construction South Sets New High Record.

Industrial, building and general development activities in the sixteen Southern states for January, 1924, surpassed all previous records for the first month of the year with a total of 5456 items published in the DAILY BULLETIN and in the construction news department of the MANUFACTURERS RECORD. It is a hopeful sign for the new year, and points to a steady continuation of the large volume of construction activity now under way throughout the South.

The total number of items published last month compares with 3992 items published in January 1923 and with 3652 items in January 1922.

The various headings showing the activity in the different industries and the number of building items classified according to the kind of structure to be erected are given in the accompanying table.

	1924. Totals for Jan.
Industrial Developments	
Bridges, Culverts, Viaducts.....	263
Canning Plants.....	8
Clayworking Plants.....	13
Coal Mines and Coke Ovens.....	39
Concrete and Cement Plants.....	9
Cotton Compresses and Gins.....	12
Cottonseed Oil.....	7
Drainage and Irrigation.....	11
Electric Light and Power Plants.....	89
Fertilizer Plants.....	9
Flour, Feed and Meal Mills.....	20
Foundry and Machine Plants.....	9
Gas and Oil Developments.....	92
Ice and Cold Storage.....	36
Iron and Steel Plants.....	2
Land Developments.....	215
Lumber Enterprises.....	66
Metal-Working Plants.....	2
Mining.....	35
Miscellaneous Construction.....	52
Miscellaneous Enterprises.....	559
Motor Cars, Garages, Tires, etc.....	161
Railways and Street Railways.....	5
Railway Shops, Terminals, Roundhouses, etc.....	11
Road and Street Construction.....	534
Sewer Construction.....	91
Telephone Systems.....	20
Textile Mills.....	34
Water-Works.....	121
Woodworking.....	44
	2569
Building	
Association and Fraternal.....	58
Bank and Office.....	74
Churches.....	187
City and County.....	81
Dwellings.....	237
Government and State.....	27
Hospitals, Sanitariums, etc.....	35
Hotels and Apartments.....	135
Miscellaneous.....	78
Railway Stations, Sheds, etc.....	18
Schools.....	301
Stores.....	159
Theaters.....	21
Warehouses.....	37
	1448
Financial	
Corporations.....	114
New Securities.....	414
	528
Machinery Proposals and Supplies Wanted.....	702
TOTAL.....	5247
Fire Damage.....	209
	5456

A Boll Weevil Trap.

L. P. Mason, whose temporary address is Spruce Pine, Ala., writes the MANUFACTURERS RECORD that E. A. Smith, of Lafayette, Ga., has invented a boll weevil trap, of which he says:

"I had the opportunity to observe this boll weevil machine as it was being built by Mr. Smith, and also saw it demonstrated after it was finished. In my opinion this machine, when properly put on the market, will be the salvation of the cotton producers of the South."

Trade Possibilities Between the South and Latin America.

By J. W. FAIRFAX, Vice-President, Interstate Trust & Banking Company, New Orleans.

Your strongly expressed interest in the development of social and economic intercourse between our country and the Latin Americas is the impelling cause of this letter. The favoring arguments are manifold and unanswerable. Self-interest would seem sufficient motive for transforming these inducements into actualities.

In his very important work, "Impressions of South America," General Mangin, soldier and statesman of France, urges his countrymen to cultivate intimate relations with "those great, peaceful and orderly republics south of the Panama." Trade statistics show that Great Britain, during 1923, largely increased her capital issues in those countries. German industrialists are reported to be quietly gaining control of material resources and planning manufacturing developments, while representatives of other nations are striving for a share of the great prize. So it is plain that the banker, investor, manufacturer and merchant of the United States must unite their brains and means to gain such control as will most benefit both peoples. And there seems abundant grounds for the conviction, since a full and friendly understanding of the Monroe Doctrine has been reached, that the Latin American people are disposed to give preference to us. This opinion is strongly confirmed by statements from President Albano and other distinguished and cultivated visitors from Ceara, who came to New Orleans in connection with a loan made for public improvements at Fortaleza, the capital of that State in Brazil.

En passant, this loan led to local contracts for the engineering, the construction and purchase of material, leaving here a large part of the sum borrowed. In the negotiation of the loan the following significant and rather surprising facts were learned: Ceara has an area of 40,000 square miles; its population numbers 1,300,000 of whom 90 per cent are white; its total internal and foreign debt is only \$2.00 per capita (the lowest of any civilized country) and for years past 25 per cent of the gross revenues have been expended for educational purposes.

But to overcome old time prejudices and inculcate confidence in the masses, continuous educational work must be carried on. The Foreign Traffic Bureau of the American Commerce Association, Chicago, has issued some especially strong appeals and reports on the subject. As an example of individual effort, the Interstate Trust & Banking Company of New Orleans has started a competitive research which promises very satisfactory results. The 1924 prize medal essay contest, held in each college and high school of the states of Louisiana and Mississippi (156 medals were awarded in 1923) has for its subject: "Why Should the South Seek Closer Social and Economic Relations with South America, Especially With Those Countries Bordering on the Atlantic Coast?" Because of the broad scope of the question, it was deemed best to thus limit for students the research and study involved in preparing their papers.

A note from Mr. McKellar, Foreign Freight Traffic Manager of the Southern Railway System at Louisville, shows that he is helping the good cause "in every possible way"; while the local representatives of the United States Shipping Board are increasing popular interest by securing a free trip to Brazil and return for the most comprehensive paper written by any one of the prize medal winners in the Interstate Bank essay contest.

Reviewing the imports to and exports from South America

it will be found that a large proportion may be profitably handled through this port, especially under the growing system of interior water transportation. And it may surprise many to learn that New Orleans and environs is a most important manufacturing center. The American Sugar Company's immense plant, the Century Roofing Company (owned by the Richardson Co., Lockport, Ohio,) the International Harvester Co., the Great Southern Lumber Company's paper mills (owned by the Goodyears), the Lukens Steel Co., the several oil refining plants, all evidence this important fact.

Here are round figures prepared by the statistical committees of the Association of Commerce: Manufacturing plants in Louisiana, 2600; capital invested therein, \$550,000,000; annual payroll, \$100,000,000; manufactured product, \$675,000,000. About one-third of this vast business is within this city's limits. This survey was up to January 1, 1920. It showed an increase of 172 per cent over the previous report of 1914. Nearly all the nationally known industries mentioned above have been established since the date of the last survey. Contemporary with this development, the resources of local banks have grown to \$300,000,000, an increase of 15 per cent for 1923 over the year preceding.

Does not the above résumé of facts justify the confidence entertained of the South's ability to greatly aid and share in the growth of beneficial intercourse with the Latin Americas?

The sole obstacle, as I see it, is the high operative cost of American ships as compared with those of Great Britain.

Equipment for First Unit \$3,000,000 Power Plant.

Macon, Ga.—Equipment has been ordered for the first unit of the \$3,000,000 electric and steam power plant here for the Central Georgia Power Co. of this city. This unit will have a capacity of 13,000 horsepower, the completed plant to embrace five units. Contracts for turbines and condensers have been awarded to the Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa.; boilers to Heine Boiler Works, St. Louis, and stokers to the Combustion Engineering Co. of New York. The Henry L. Doherty Co. of New York is the engineer.

The plant, it is stated, will be owned by the Central Georgia Public Service Co., charter for which has been applied for, and will be leased and operated by the Central Georgia Power Co. On behalf of the Central Georgia Public Service Co., application has been made to the public service commission for authority to issue \$1,000,000 in common capital stock and \$2,250,000 of bonds.

Colored Industrial Workers to Have Home Colony.

H. L. Jacobs of Suffolk, Va., president of the Industrial Housing Corporation, which plans to establish a home colony for colored industrial workers at Suffolk, advises the MANUFACTURERS RECORD that the company has purchased 75 acres of land for its purpose. The property has been surveyed and platted and streets laid out.

It is the intention of the company to build houses in units of 50, completing 100 houses this year. They will be of frame construction, one story and will contain five rooms, the cost to be about \$1000 each. The K. L. Hulsick Co. of Norfolk, is handling the architectural and engineering work. James L. Bell, of Suffolk, is secretary and treasurer of the Industrial Housing Corporation.

Lime Increased in Output and Value in 1923.

About 4,057,000 short tons of lime, valued at \$39,413,000, was sold in the United States (including Hawaii and Porto Rico) in 1923, according to the Department of the Interior. This quantity is more than 11 per cent greater than that sold in 1922, and only slightly less than that sold in 1916, the year of largest recorded production. Of the 42 states and territories that produced lime in 1923, 16 showed a decrease and 26 an increase in output as compared with 1922. Nearly all the states that showed decrease in 1923 are small producers or larger producers that serve local markets or that supply a demand for special lime products. Ohio retained the position that it reached in 1922 as the leading state in the manufacture of lime. The growth of the industry in Ohio is due chiefly to the increased output of building lime, most of which is hydrated lime. In Pennsylvania which was formerly the leading state, there has been during the last few years a decided decrease in the output of lime manufactured for use in agriculture, and no corresponding increase in the sale of lime for chemical and structural uses.

Seven principal lime producing states of the South, in 1923, sold 1,119,500 tons of lime valued at \$9,354,000. Compared with 1922, this is an increase in Southern lime output of over 134,000 tons, or nearly 14 per cent, and a gain in value of over \$1,508,000, or nearly 20 per cent.

LIME SOLD IN THE SOUTH.

State	1922.		*1923.	
	Production Short tons	Value	Production Short tons	Value
Alabama	168,135	\$979,331	198,000	\$1,300,000
Maryland	71,261	554,194	66,500	570,000
Missouri	203,984	1,953,524	251,000	2,454,000
Tennessee	126,305	939,039	124,000	972,000
Texas	52,552	524,985	62,000	597,000
Virginia	152,436	1,251,683	175,000	1,350,000
West Virginia	210,146	1,643,055	243,000	2,111,000
Total	984,819	\$7,845,811	1,119,500	\$9,354,000
Total United States.	3,639,617	\$35,255,039	4,057,000	\$39,413,000

*Estimated by Geological Survey.

The sales of hydrated lime in the United States in 1923 are estimated at 1,206,000 short tons, an increase of 9 per cent over those in 1922 and the largest yet reported. Of the 31 states that reported an output of hydrated lime in 1923 several showed a small decrease, but the increase in such states as Ohio, Pennsylvania, Missouri, and Virginia kept the sales well above 1,000,000 tons, the production in 1922. The estimated value of the hydrated lime sold in 1923 was \$11,824,000, an average value of \$9.80 a ton. The average value in 1922 was \$8.92.

The reports indicate that about the same number of plants were in operation in 1923 as in 1922. Many improvements were made at plants and kilns in order to reduce the cost of labor to a minimum and to increase efficiency. Wages were high, and at times, especially in the summer, common labor was hard to obtain. The cost of operation was generally higher than in 1922, although coal was more plentiful and somewhat cheaper. The manufacturer that sold lime in barrels found that the increase in the cost of the barrels caused a corresponding increase in the cost of lime per barrel.

The demand for lime for building enterprises was moderately large during the first part of 1923. The increase in sales in 1923 will probably be about 17 per cent.

The demand for chemical lime was steadier throughout the year than that for construction lime. The total sales in 1923 will evidently be more than in 1922, possibly 12 per cent. The sales of refractory lime (dead-burned dolomite) amounted to about 395,000 short tons in 1923, as against 348,838 short tons in 1922, an increase of 13 per cent.

Although some producers reported a considerable demand for agricultural lime in 1923, reports from the chief producing states, including Pennsylvania, Maryland, Virginia, and West Virginia, indicate decreased total sales. The reason given for the decrease in sales is the inability of the farmers

to pay the price charged for agricultural lime. Many farmers who burn lime for their own use reported increased output, but the manufacturers of commercial agricultural lime in the same district reported decreased sales. However, the high price of coal, the scarcity of farm labor, and high wages, kept many farmers from burning lime for themselves or their neighbors.

Foundation Contract Awarded for Methodist Hospital at Fort Worth—Building Will Cost \$1,000,000.

Fort Worth, Tex.—Contract has been awarded to James T. Taylor of Fort Worth at \$32,296 for building the foundation for the Methodist Hospital to be erected here at a cost of \$1,000,000. The building will be X-shaped, covering an area of 17,000 square feet, of reinforced concrete construction, and will contain 400 beds. It will be equipped with a steam heating plant and power house, laundry equipment, two elevators and five dumb waiters, and will have tile, rubber, terrazzo and linoleum floors, with a tile and tar and gravel roof.

W. G. Clarkson & Co. of Fort Worth are the architects and Judge W. Erskine Williams is the chairman of the building committee.

Contract for \$250,000 High School at Hickory.

Hickory, N. C.—Contracts have been awarded for the erection of the new Hickory high school on Claremont College campus, Jarret & Riddle of Sanford, N. C., receiving the general contract at \$177,791. Heating contract was awarded to the American Heating & Ventilating Co. of Richmond, Va., at \$18,300, and plumbing to the James C. Shuford Co. of Hickory, at \$9645. Wiring and other contracts are still to be awarded.

The building will be H-shaped, 110 by 250 feet, steel frame, of slow burning construction and will contain 24 academic and administrative rooms in the center, with home economics department in one wing and gymnasium and manual training department in the other. C. Gadsden Sayre of Anderson S. C., and Raleigh, N. C., is the architect.

Durham's \$250,000 Auditorium and Theater—Bids to Be Opened March 1.

Durham, N. C.—Plans have been completed for the erection of the \$250,000 auditorium and theater for the city of Durham, and construction bids will be opened on March 1. The building will be 70 by 160 feet, three stories, of fireproof construction, concrete foundations, wood, composition and tile floors, Barrett roof, hollow tile, and ornamental terra cotta. It will be equipped with vapor heat, metal doors, wire glass vaults, vault lights and ventilators. Milburn, Heister & Co., with offices in Durham, are the architects.

Plans Ready for \$275,000 School at Charlottesville.

Charlottesville, Va.—Plans for the proposed primary school building to be erected here at a cost of \$275,000, have been completed and construction contract will soon be awarded. The building will be located at Gordon avenue and Fourteenth street near the University of Virginia, and is designed for use of the children in the western part of the city. Work is expected to begin in March and the building completed within a year. Charles J. Calrow of Norfolk is the architect.

Plan \$500,000 Apartment Hotel in Oklahoma City.

Oklahoma City, Okla.—Plans are being considered by G. A. Nichols of this city for the erection of a large apartment hotel here to cost about \$500,000. The building will probably be located in the north central part of the city and will contain suites of from one to seven rooms.

Big Oklahoma Steam-Electric Power Plant Nears Completion.

Within the next few weeks the Oklahoma General Power Company's new 30,000 horsepower Riverbank power station located on the Arkansas River near the mouth of the Grand River about three miles east of Muskogee, will be placed in operation. Preliminary details have been previously published in the MANUFACTURERS RECORD. The station which will be operated by the Oklahoma Gas & Electric Company will be one of the largest and most modern steam plants in the Southwest. Some idea of its size is shown by the fact that 12,000 cubic yards of excavation was required and that 600 carloads of material, 10,000 cubic yards of concrete and 700,000 brick were used in the construction of the plant.

The generating capacity is 22,500 kilowatts consisting of two General Electric turbo-generators, one of 15,000 kilowatts capacity, the other 7500 kilowatts capacity, both of which generate current at 13,200 volts. Both turbines are designed to operate at 225 pounds steam pressure and 250 degrees superheat.

The boiler equipment consists of six 1022 horsepower Edge Moor water tube boilers equipped with soot blowers and superheaters. These boilers are designed with sufficient furnace capacity and heating surface to deliver 250 per cent of their normal rating, in other words, each boiler will deliver 2500 boiler horsepower.

The six boilers are arranged so that there are three on each side of the boiler room with a firing aisle between. Each boiler is equipped with an underfeed stoker and an oil burner so that either coal or oil may be used for fuel.

When coal is used it will be run through a crusher so that it may be readily handled by the automatic stokers. The crusher is located at the bottom of a conical shaped pit into which the coal is either dumped directly from the car or filled from the storage pile by a locomotive crane. From the crusher the coal is carried by a bucket conveyor to the top of the boiler room where it is transferred to a belt conveyor which distributes the coal into huge steel bunkers located above the boilers. From the bunkers the coal flows by gravity to the automatic stokers.

Facilities are also provided for easily handling the ashes which are dumped into steel cars run on a track underneath the boilers.

It is estimated that approximately 200 tons of coal will be required per day when the plant is running at full capacity.

For the purpose of storing fuel oil two 50,000 barrel tanks have been erected near the plant.

To provide foundations for the building, approximately 470 McArthur patented concrete piling having a 1:2½:5 mix were put down to shale. The frame work of the building which is 80 feet in height is of steel construction with brick wall. All foundations and super-structures are reinforced concrete. The floors are also concrete finished with red tile. Above the boiler rooms are two self-supporting steel stacks 14 feet in diameter and 220 feet high which have a 4-inch concrete lining and weigh approximately 300 tons each.

The top of the building foundation is 18 feet above the high water elevation of the river, and the floor of the intake and discharge tunnel is 60 feet below the top of the building foundation. The intake and discharge tunnels are of monolithic concrete construction and the dimensions of each are 7½ by 11 feet and the floors of the tunnels are 11 feet below the low water elevation of the river.

The cooling water for the condensers flows from the river by gravity through a revolving screen house into the intake

tunnel to the condenser pit where it is forced through the condensers by means of motor driven centrifugal pumps and then back to the river through the discharge tunnel.

Each turbine has a condenser, each of the Worthington surface type, which are located below the turbine room floor. In this plant the boiler feed pumps are steam driven while the exciters are arranged for either motor or steam turbine drive. In case of trouble with the exciter motor, it is automatically disconnected and steam turbine thrown on which prevents the generators from dropping the load.

The switchboard is located on a balcony overlooking the turbine room. The switchboard and switching equipment is the most modern and up-to-date type. The switches are interlocked to prevent the possibility of a short circuit by incorrect switching. Transfer and auxiliary busses are provided and all busses and switches are enclosed in fire-proof concrete vaults.

There will be three 13,200 volt three phase circuits from this plant two of which will supply the city of Muskogee and the third will supply the town of Fort Gibson and the several sand and gravel companies near by. There will also be two 63,000 volt circuits from this plant which will connect with the large transmission system operated by the Oklahoma Gas & Electric Company. The current generated at 13,200 volts will be stepped up to 63,000 volts by a 15,000 kilowatt transformer and a 7500 kilowatt bank of transformers. Part of this current will be sent over the 63,000 volt transmission line west to the various towns and oil fields served by the Company in the central and western part of the State.

Another 63,000 volt transmission line will carry current from the plant east to Fort Smith, Arkansas and the various intervening towns and coal fields along the line.

Contracts for \$500,000 Storage Warehouse.

Contracts have been awarded for the erection of the proposed storage warehouse at New Orleans for the Louisville & Nashville Railroad Co., which is estimated to cost complete \$500,000. The Doullut & Williams Co., Inc., of New Orleans advises the MANUFACTURERS RECORD that it has received the general contract in the amount of \$429,000, and that it has let the following sub-contracts: Structural steel, Lukens Steel Co.; roofing, William F. Kihnel; reinforcing steel, Ole K. Olsen, all of New Orleans; steel sash, Detroit Steel Products Co., Detroit; rolling doors, J. G. Wilson Corporation, New York, and glazing, Pittsburgh Plate Glass Co., Pittsburgh, Pa.

The warehouse will be of concrete and steel, 900 by 500 feet, two stories high.

Will Supply Current for Oil Development Operations.

Drumright, Okla.—A contract has been closed by the Oklahoma Gas & Electric Co., main offices in Oklahoma City, to furnish electricity to the Hill lease near here of the Cosden Oil & Gas Co. The contract, it is stated, calls for 2000 horsepower energy to operate sixty-five 30-horsepower oil well pumping motors and ten gasoline plants. An extension line will be built to the lease from the high line of the Oklahoma Gas & Electric Co.

Buys Interest in North Carolina Company.

High Point, N. C.—A recent announcement here states that the General Gas & Electric Corporation of New York has purchased a large interest in the holdings of the North Carolina Public Service Co. of High Point, C. B. Hole, president. By the purchase, it is said, the former company will be interested both in operating and financing the local company. W. S. Barstow is president of the General Gas & Electric Corporation.

Leesburg May Lease Hydro-Electric Plant Under Construction at Moss Bluff, Fla.

Leesburg, Fla., February 9—[Special.]—The city commission of Leesburg has tentatively accepted a proposal submitted by J. D. Young, of this city, president of the Ocklawaha Reclamation Farms, Ocala, Fla., for leasing the hydro-electric plant under construction at Moss Bluff for the company. This proposition will be submitted to a vote of the city, the date for the election to be determined shortly. A lease already drawn and awaiting execution, provides for the construction and equipment of the plant by the Ocklawaha Reclamation Farms and for building lines to tie-up to the present city system, the plant to be ready for operation by January 31, 1924.

Equipment to be installed embraces the installation of two units of 350 horsepower each, with provision for an additional unit of 500 horsepower, 1000 K. V. A. substation at the dam, transmission line of 2000 K. W. and a substation at Leesburg of 300 K. V. A. capacity. The lease runs for a period of fifty years and is based on a return of six per cent annually on a valuation of \$400,000.

Mr. Young will award contract to the Hardaway Contracting Co. of Columbus, Ga., to erect the power plant and transmission line, the latter about 22 miles in length. Contracts have already been let to James Leffel & Co., Springfield, Ohio, and to the Westinghouse Electric & Manufacturing Co. for equipment. Victor G. Johnson is the construction engineer.

Additional Contracts on Hotel Peabody—Work So Far Awarded Totals \$1,500,000.

Memphis, Tenn.—In addition to a contract recently awarded to the B. W. Construction Co. of Chicago, allied with the B. W. Buttas Bros. Construction Co. of the same city, for the construction of the skeleton of Hotel Peabody to be erected here by the Southern Hotel Co., other contracts have been awarded, the total amounting to more than \$1,500,000.

Additional contracts include: Carpentry, Olsen Bros., Chicago, with sub-contract to Cole Manufacturing Co., Memphis, for millwork; terra cotta work, Northwestern Terra Cotta Co.; plastering, Burson Bros.; art marble for floors, wainscoting, etc., Chicago Marble Co.; partitions, U. S. Gypsum Co., all of Chicago; marble work, Alabama Marble Co., Birmingham; tile for bath rooms, etc., Central Mosaic & Tile Co., Memphis; electrical work and wiring, Sanborn Electrical Co., Indianapolis; ornamental iron work, including structural iron, fire escapes, metal stairs, sheet metal, etc., Wisconsin Iron & Wire Works, Milwaukee.

The building will be 324 by 170 feet, 12 stories, and is estimated to cost more than \$2,000,000 without equipment. Other contracts, including plumbing, heating, glazing, painting, ventilating and machinery are to be awarded soon. Walter W. Ahlschlager, Inc., of Chicago, is the president.

Over Half of Steel and Iron Exports Go to American Markets.

Over one-half of the iron and steel shipments of the United States for the entire year 1923 went to the main American markets. Canada, with 760,400 tons was far in advance of any other export field, according to the Iron and Steel Division of the Department of Commerce. Cuba was responsible for 171,900 tons, Mexico for 84,600 tons, Argentina for 53,700 tons, Brazil for 50,500 tons, and Chile for 33,900 tons. The United Kingdom took 63,000 tons of iron and steel from producers in the United States. Exports to Japan increased heavily during the last quarter due in part to needs for reconstruction after the earthquake. Japan's total for the year was 360,000 tons, of which 160,000

tons were shipped during October, November, and December. Receipts by Australia, the Philippine Islands, and China were 41,100 tons, 35,000 tons, and 52,100 tons, respectively.

Despite the decline in iron and steel imports during the last half of the year, a total of 734,734 tons of foreign iron and steel products were admitted through the United States customs districts during 1923. Pig iron, ferroalloys, and scrap formed the bulk of these receipts, and rails and splice bars and semi-finished steel were next in tonnage.

Freight and Passenger Boat Line Planned from Leesburg to Jacksonville, Fla.

Leesburg, Fla.—Plans for the establishment of a combination freight and passenger boat line from Leesburg to Jacksonville, a distance of more than 150 miles, are being developed by J. D. Young of this city and others who are interested in the enterprise. The route will be through the Ocklawaha, St. Johns and Jackson rivers and will involve the construction of a number of wharves and warehouses along the line.

It is said to be the purpose of the government to provide a five-foot channel in the Ocklawaha River and canal, when plans for the line have been completed.

Sparrows Point Rail Mill to be Modernized and Improved at Cost of \$500,000.

Authority has been given to the Bethlehem Shipbuilding Corporation by the Bethlehem Steel Co. of S. Bethlehem, Pa., to modernize its rail mill at Sparrows Point, Md., at a cost estimated at \$500,000. The shipbuilding corporation is a subsidiary of the Bethlehem Steel Co. and has recently put its rail mill in operation after having it closed down for several years. Electric engines will be substituted for steam and modern burners will be installed, the improvements to be made at once. Employment for about 200 men will be provided.

\$800,000 for Terminal Facilities at New Orleans.

Construction has begun at New Orleans, La., on a river front improvement by the Louisville & Nashville Railroad Co. which when completed will cost about \$800,000 according to a report from that city. There will be erected a freight shed of steel and brick construction two stories high, a two-story shop building and an engine house. The freight building will be more than 900 feet long and its foundations and walls will be sufficiently strong to permit the erection of two additional stories whenever growth of business may require more room.

Bids in Sixty Days on \$1,500,000 Bank Building.

Dallas, Tex.—Bids on the new 20-story building to be erected here by the Republic Building Co. for the Republic National Bank and the Republic Trust & Savings Bank, at a cost of \$1,500,000, will be opened in about sixty days. As previously outlined in the MANUFACTURERS RECORD, this building will be of fireproof construction and will be erected according to plans by C. D. Hill & Co., of Dallas. Mr. Jameson, with offices in the Magnolia Building, is the engineer.

Get Together Naval Stores Conference.

Savannah, Ga., February 9—[Special.]—Representatives of paper, soap, varnish, paint, linoleum and other industries consuming naval stores, will meet in this city on February 21, 22 and 23 to consider problems of all elements of business affecting the naval stores industry. The entire naval stores trade of Savannah will act as hosts of the conference, and J. C. Nash of the Columbia Naval Stores Co., of this city, has been appointed chairman of the general committee.

New Bethlehem Diesel Engine Proved Successful by Practical Test in Marine Service.

On Friday of last week a test of the new Bethlehem marine oil engine installed in the ship Cubore, which carries iron ore from Cuba to the Bethlehem Steel Co. at Sparrows Point, Md., took place on Chesapeake Bay, a trip of 30 miles being made from Baltimore, the ship returning there after the test. More than sixty prominent shipping men and marine engineers were on the ship during the trial which was pronounced a complete success. The engine, which is of the modified Diesel type developed and perfected by the Bethlehem Shipbuilding Corporation's engineers, is a two cycle, six cylinder machine of 2500 horsepower which runs at full speed 98 revolutions per minute; the cylinders are of 26 inches in diameter; the pistons have a 48-inch stroke.

It was stated by officials following the trip that the engine responded promptly and efficiently to every requirement and even when it was throttled down to 25 revolutions per minute the ship then moving at a rate of only little more than three miles per hour, vibration was not perceptible; the normal speed of the engine is more than 10 nautical miles an hour.

Among those on board were J. Gerrish Smith, vice president of the Bethlehem Steel Co.; E. B. Hill, vice president of the Bethlehem Shipbuilding Corporation; J. Arthur West, chief engineer of the Bethlehem Steel Co.; Angelo Conti, consulting engineer of the United States Shipping Board, and other prominent engineers. It is believed that the better living conditions possible on ships driven by oil engines will contribute toward keeping sailors in the merchant marine service. The Cubore immediately after the test of the new engine resumed her duties on the route between Sparrows Point and Daiquiri, Cuba. She is of 11,000 tons deadweight capacity and was formerly driven by steam.

Architect for \$250,000 Hotel at Hickory.

Hickory, N. C.—Directors of the Hickory Hotel Co., which plans to erect a \$250,000 hotel here, have selected C. C. Hartman of Greensboro, N. C., as architect. Tentative plans provide for a six-story building, with lobby and five stores; construction to permit raising the building to seven or eight stories if desired. J. A. Moretz is chairman of the executive committee of the hotel company.

Monthly Report of Steel Ingot Production.

Herewith is the monthly report of the American Iron and Steel Institute on the production of steel ingots from January, 1923, to January, 1924, inclusive, of companies which in 1922 produced 95.35 per cent of the total production of steel ingots.

MONTHLY PRODUCTION OF STEEL INGOTS, JANUARY, 1923, TO DECEMBER, 1923.

Months 1923	Open Hearth	Bessemer	All Other	Monthly Production Companies Reporting	Calculated Monthly Production All Companies	No. of Working Days	Approximate Daily Production All Companies Gross Tons
January	2,906,892	728,270	9,467	3,644,629	3,822,369	27	141,569
February	2,613,564	669,903	10,797	3,294,264	3,454,918	24	143,955
March	3,046,309	799,525	12,841	3,858,675	4,046,854	27	149,883
April	2,974,579	772,485	13,933	3,760,997	3,944,412	25	157,776
May	3,136,558	847,418	16,719	4,000,695	4,195,800	27	155,400
June	2,821,239	737,845	15,483	3,574,567	3,748,890	26	144,188
July	2,658,449	680,884	11,496	3,350,829	3,514,241	25	140,570
August	2,796,370	701,059	9,326	3,506,755	3,677,771	27	136,214
September	*2,551,490	613,709	8,602	*3,173,801	*3,328,580	25	*133,143
October	2,724,371	649,452	9,163	3,382,986	3,547,966	27	131,406
November	2,343,368	616,335	9,309	2,969,012	3,113,804	26	119,762
December	2,130,613	570,004	10,912	2,711,529	2,843,764	25	113,751
Total	*32,703,802	8,386,889	138,048	*41,228,739	*43,239,369	311	*139,033

*Revised.

MONTHLY PRODUCTION OF STEEL INGOTS, JANUARY, 1924.

Months 1924	Open Hearth	Bessemer	All Other	Monthly Production Companies Reporting	Calculated Monthly Production All Companies	No. of Working Days	Approximate Daily Production All Companies Gross Tons
January	2,752,932	667,032	12,577	3,432,541	3,599,938	27	133,331

\$200,000 Coal Deal in West Virginia.

Fairmont, W. Va., February 9—[Special.]—Negotiations have been consummated by the Sitnek Coal Mining Co. for the purchase of the Katherine mine of the Antler Coal Co. at Lumberport, W. Va., for approximately \$200,000, the purchase covering the mine as well as 200 acres of Pittsburgh coal land. Edmund Cramp of Fairmont will be the general superintendent of the purchasing company, which has organized and applied for a charter, calling for a capitalization of \$500,000. About \$100,000 will be expended in equipping the mine. The Antler Coal Co. will continue to operate its two remaining mines at Round Bottom and on the Charleston division of the Baltimore & Ohio railroad.

Plan \$500,000 Odd Fellows Building at Nashville.

Nashville, Tenn.—Plans for financing a twelve-story \$500,000 building in this city, are being considered by the executive committee of the Independent Order of Odd Fellows of Tennessee, of which C. M. Bishop of Memphis, is Grand Master. The order owns a site on Seventh avenue north, near Broadway, and it is on this property that the building will be located if details are successfully arranged.

The structure will cover an area 80 by 150 feet, the first floor to be devoted to stores and the second and third floors to the lodge. An auditorium to seat 2000 will occupy the center and depth of these two floors, while offices for the use of the order will circle the auditorium on all sides and on the two floors. Upper floors above will be leased for offices.

Construction Soon on \$1,500,000 Superphosphate Plant.

Tampa, Fla.—Reporting progress toward the erection of its proposed superphosphate plant near Tampa at an estimated cost of \$1,500,000, the U. S. Export Chemical Corporation of this city announces that building operations will soon begin on a large scale and the plant pushed to completion. It is planned to develop 4000 acres of phosphate lands.

Land for the various plant units has been cleared and much grading done, pilings for temporary docks have been delivered, survey for railroad spurs has been completed, quantities of construction materials ordered and materials for the main office building, laboratory, machine and blacksmith shops are expected to be delivered soon.

All construction work will be under the supervision of the Chemical Construction Co. of Charlotte, N. C., of which Peter S. Gilchrist is president. Lorenzo A. Wilson of Jacksonville is president of the U. S. Export Chemical Corporation.

THE IRON AND STEEL SITUATION

Mills Filling Steel Orders as Received.

Pittsburgh, Pa., February 11.—[Special]—There are no important new developments in the steel market this week, of either a favorable or an unfavorable character. All the steel mills report that the incoming business is of widespread character, being in relatively small orders, very numerous. Practically all consuming lines and all parts of the country are well represented. So far as can be seen, the aggregate of orders received from day to day is sufficient to support the rate of mill operation. At the same time the mills are not filling up but are still able to make reasonably prompt shipment on new orders as received.

The condition of there being such a large volume of business and of the mills not filling up, by orders being placed for extended deliveries, is unprecedented. Before the war, in an active market, the mills always filled up, sometimes appearing to be sold very far ahead, though all the business did not result in actual shipments, buyers withholding specifications when an unfavorable turn came. This time, nearly all the business is in the form of actual shipping orders. Steel business is being done in a new way.

While precise estimates of the rate of steel production cannot be made, the best guess seems to be that ingot production is now running at a rate of 43,000,000 or 44,000,000 tons a year, there having been a rapid increase early in January and a slow increase in the past two or three weeks. This rate would seem to be something like 25 per cent above the rate in December, representing a very rapid increase.

It is recognized that a considerable part of the steel shipped lately has been for replenishment of stocks of jobbers and manufacturing consumers. As stock replenishment would not take a great while, the great question of the steel market now is how much the shipments of steel have run above actual consumption and how much increase there will be in consumption, to take up the slack and avoid a decrease in mill operations. Buyers in replenishing stocks are of course assured that the steel will be definitely needed in the near future, for there is no occasion to buy speculatively since there is no indication of prices advancing, and there is no danger apparent that mill operations will be interfered with later on. There may be a suspension April 1 at the union bituminous coal mines but the prospects of this, or at least of there being a long suspension, have been decreasing of late, and in any event the steel industry would be well fortified to continue its operation.

Production of pig iron has increased, but not as rapidly as production of steel, one reason for the difference being that when steel production decreased to the end of last year blast furnaces were not blown out correspondingly, some pig iron being piled in December. Taking the average rate of pig iron production during the year 1923 as 100, production in May, the high month, was 114, and in December, the low month, 86, while the rate now is about 92. The trend now is upward, among the steel works furnaces, merchant pig iron production being practically stationary.

Prices of the important steel mill products, rails, bars, shapes, plates, wire products, merchant pipe and oil country goods, sheets and tin plates, are all well held. While there was doubt late in the old year as to the continuance of prices, that doubt is now dispelled, until conditions change fundamentally, and it is this confidence in prices that has stimulated buying since about the middle of December.

In some of the manufactured steel products price irregularity, which was more or less marked in November and

December, is beginning to reappear. Cold rolled strips have again gone at 4.75c, when the market had firmed up to 5.00c, and there is shading in rivets. Cold finished bars are holding very firm.

The mass of pig iron inquiry reported ten days ago as having suddenly come out has not resulted in business to any extent. Furnaces advanced their asking prices about a dollar a ton, chiefly because steel works had entirely withdrawn their offerings of pig iron, and while the furnaces are holding their prices firmly consumers are not taking hold to any extent. They seem to be covered to about April 1. Advanced asking prices are \$24 for Bessemer, \$23 for basic and \$24 for foundry, f.o.b. valley furnaces, freight to Pittsburgh being \$1.78. The Standard Sanitary Manufacturing Company, however, bought 20,000 tons of foundry iron for second quarter just before the advance, paying \$23, valley.

Recent inquiry for Connellsville furnace coke for second quarter has been failing in interest, furnacemen being quoted some 25 cents advance for second quarter over prices that have been ruling for this quarter, operators having an idea that \$4.50 should be minimum. The spot furnace coke market has been firmer in the past fortnight or so, being now quotable at \$4.00 to \$4.15.

Strength in Birmingham Iron Market.

Birmingham, Ala., February 11.—[Special]—The Southern pig iron market is showing strength and there is much optimism. Production will be increased the moment it is seen that the demand warrants. Three blast furnaces are now being worked on, either relined or stoves being put into order, to be ready for the torch by the end of the month or on the turn of the month.

Quotations of pig iron are still inclined upwards and while there was an expression a week or 10 days ago that \$23 would be the level to be maintained, one or two smaller furnace interests are asking \$23 and a one-furnace company, is asking \$24, though not consummating any sales. The \$23 per ton base is being held to strongly, No. 2 foundry, though it was current the past week that a 10,000 ton sale was done at \$22.50 per ton. A sanitary manufacturing company in January purchased something over 10,000 tons at the \$22.50 per ton base, but the other order is said to have been placed since. Inquiries are still being received. The sales being made are mainly for Southern melting and small-lot customers are still predominating the market.

Reports being received from various sections indicate that conditions in the Birmingham district are better, in proportion to the total capacity, than elsewhere. Sales of iron already made will cover a large percentage of the probable make of the second quarter of the year. Two of the furnace interests are making no effort to book business, but are caring for that which is coming in from regular customers. The furnaces in blast are making the average amount of iron right along, fifteen on foundry and eight on basic. But little of the latter class of iron goes on the open market.

The melt of iron in the home territory, in the State, so to speak, is showing a little improvement right along. In the Chattanooga district there is a little demand for Alabama iron, too. Cast iron pipe works, both pressure and sanitary, are melting iron steadily and shipping at the same pace as they are manufacturing. The pressure pipe makers have purchased some in advance of their needs while the sanitary pipe producers have been buying in small lots, evidently standing for the increase in prices right along. Other foundries are using considerable pig iron again while machine

shops are looking for improved conditions. The surplus stock of iron in Alabama is lower now than it has been in five to six months, if not longer. What basic iron there is on the yards belongs to the producers for their own consumption.

Steel fabricating plants report much activity. R. I. Ingalls, president of the Ingalls Iron Works Company, one of the largest plants of the kind in the outh, is back from a trip east. He reports that throughout the country the plans of so fabricating structural steel as to increase its weight holding, is proving most profitable, that larger structures are being considered in various parts of the country and that more steel will be used. Announcement is made by the Ingalls company of the installation of a warehouse service in which steel products will be carried other than those produced in the plant here.

The Southern Steel & Rolling Mills Company, one of the smaller industries of Birmingham, is working on almost full time with orders in hand for concrete bars and other products which will warrant steady operations for nearly three months. Among the orders recently received was one from the dock board in New Orleans which calls for 600 tons of concrete bars. This mill uses rerolling rails entirely in its operations and goes after business in competition with the largest of manufacturers.

Car orders have been received in the district recently, not only for repairing, but for building new cars.

The coal production in Alabama is showing a little increase though the output at this time a year ago is not being reached. The first month of this year is given credit for 1,600,000 tons of coal and the first week in this month was good also. There has been very little coal accumulated for an emergency.

C. H. Nesbitt, for the past several years chief state mine inspector has been reappointed by Governor W. W. Brandon for a period of four years.

The coke demand is holding its own. The quotations of coke range from \$5.50 to \$6.50 for by-product foundry coke.

The old material market is showing some improvement and No. 1 cast, stove plate, and special steel are finding some sale. Cast iron pipe makers are taking cast, the brake shoe concern is using stove plate while foundries are taking the special steel scrap. Quotations have changed only slightly. Car wheels are being broken up in the preparations of the special steel. Heavy melting steel is showing no change. The largest buyer in the open market is the Gulf State Steel Company and a full supply is always obtainable by the company.

The Southern experimental station of the United States Bureau of Mines, at Tuscaloosa, is making investigations as to flue dust at blast furnaces and announcements are that the heretofore waste product has values that will prove profitable in the future. Recoveries can be brought about which will go towards lowering the cost of iron making. The report will be made shortly as to the results of the investigations and the properties to be saved in the flue dust.

Pig iron and iron and steel scrap quotations follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$23.00 to \$25.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$23.50 to \$24.00; iron of 2.75 to 3.25 per cent silicon, \$24.00 to \$24.50; iron of 3.25 to 3.75 per cent silicon, \$24.50 to \$25.00; iron of 3.75 to 4.25 per cent silicon, \$25.00 to \$25.50; charcoal iron, f. o. b. furnaces, \$33.00 to \$34.00.

OLD MATERIAL

Old steel axles	\$19.00 to \$20.00
Old iron axles	21.00 to 21.50
Old steel rails	12.00 to 13.00
Heavy melting steel	14.00 to 15.00
No. 1 cast	19.50 to 20.00
Stove plate	16.50 to 17.00
No. 1 R. R. wrought	12.00 to 13.00
Old car wheels	16.00 to 17.00
Old tramcar wheels	17.00 to 18.00
Machine shop turnings	7.00 to 9.00
Cast iron borings	9.00 to 10.00
Cast iron borings, (Chem.)	15.00 to 16.00

RAILROADS

New Interurban Plan in Texas.

Capt. Ed. Kennedy, general manager of the Houston, Beaumont & Orange Interurban Line, Houston, Tex., says in a letter to the MANUFACTURERS RECORD: "I take pleasure in letting you know that we have placed our bonds—\$5,000,000 of 6 per cents—with S. B. Thayer Son & Co., of Washington, D. C.

"J. D. Davis, of Atlanta, Ga., has the contract for the construction of the line. He will have offices in Atlanta, Houston and Beaumont. He has a bond with Thayer, Son & Co., to have the work completed in fifteen months from May 1, 1924. This is a well-known bond firm in Washington, Pittsburgh, Philadelphia, Boston and New York. They were founded in 1843 as railroad engineers and contractors and later engaged in handling first mortgage bonds. Frederick E. Lewis is the general manager of the firm.

"Our engineering work is being assembled and our right of way is being secured. We are making ready for filing the mortgage. The line is to be 105 miles long from Houston to Liberty, Beaumont, Orange and Port Arthur. This is through the oil fields and some of the best developed counties in Texas. The population is 600,000 along the proposed route which is being very rapidly settled and built up. The people are making progress in raising figs and grape fruit, besides engaging in truck gardening of all kinds. Orange is a very thriving city on deep water, one of the richest cities of its size in the state.

"In addition to the work of constructing this interurban line there will be five good townsites syndicated and put on the market by Alabama and Georgia people. W. W. Brown and associates are expected to go along on this deal. The line will open up townsites all along the way and it will be of great benefit to the people in these communities and to those adjacent thereto.

"The production in the oil fields along the line is something enormous. Then there are saw mills, sulphur mines and other industries being opened up. That will make this line a good one for passengers and express freight. The interurban will surely get its share of the passenger traffic; the Gulf Coast Lines and the Southern Pacific together run sixteen trains every twenty four hours and there is hardly standing room for passengers."

Railroad and Fertilizer Plant.

According to a press report from Fort Pierce, Fla., application will be made immediately to charter the Trans-Florida Central Railroad Co. for the purpose of acquiring and extending the Fellsmere Railroad, 10 miles long from a connection with the Florida East Coast Railway at Sebastian to Fellsmere, Fla., traversing the well-known Fellsmere Farms tract. The incorporators, who are residents of Winter Park, Fla., and their official connection with the proposed company, are E. B. Mendsen, president; G. E. Currier, vice president; and P. A. Vans Agnew, secretary and treasurer. L. S. Lynch is named as general manager.

It is further stated that the organization of the new railroad company and the acquisition of the Fellsmere line is part of a plan by the Standard Agricultural Chemical Corporation of New York that some time ago acquired the Fellsmere holdings looking to the establishment of a large fertilizer factory it is now building near Fellsmere. Work on this factory is progressing and it will have a capacity of 150,000 tons of fertilizer per year using material taken from a large muck or peat deposit said to be eight feet in depth and to contain 5 per cent of ammoniate, the factory providing nitrogen.

Approval Given to Large Stock and Bond Issue.

At a meeting of stockholders of the New Orleans, Texas & Mexico Railway Co., held last week at New Orleans, the proposed increase of the capital stock from a total authorized issue of \$15,000,000 to \$25,000,000 was approved as was also a proposed new mortgage that will permit the issue of bonds up to not more than \$50,000,000. About \$21,000,000 of the bonds that can be issued under the new mortgage will be used for refunding; the rest will be used for improvements from time to time, it is understood, as occasion demands. No discussion took place concerning the negotiations pending in New York looking to the acquisition of the International-Great Northern Railroad.

A Southern Plant Completed for Building Gasoline Railway Motor Cars.

The Edwards Railway Motor Car Company, of Sanford, N. C., which was recently incorporated in that state, has just completed the erection of a modern and up-to-date plant for the manufacture of gasoline railway passenger motor cars, one of which with a trailer, built for the Black Star Coal Co., of Louisville, Ky., is illustrated herewith.

The company began manufacturing these cars in July last and since then it has turned out a number of them which are being operated on a considerable number of railroads, it is stated, with which they are proving very satisfactory and economical. This type of car was designed by H. P. Edwards, who for some years was general manager of the Atlantic & Western Railroad with office at Sanford, and it was on that line that the idea of building such a car was developed. He is president of the company.

The first car was built by him eight years ago and it is still in daily operation on the Atlantic & Western which runs from Sanford to Lillington, N. C., 24 miles. These cars are built for carrying passengers, mail, baggage, and express matter and are constructed in various sizes, from 30 to 100 passenger capacity. They are, it is further stated, being operated at a cost of from 15 to 25 cents per mile as compared with a cost of from \$1 to \$1.50 per mile for operating a train drawn by a steam locomotive. They are clean and comfortable and have proved useful and efficient on lines where traffic would not justify the use of heavier equipment.

The car shown in the illustration has a capacity of 30 passengers and there is also a roomy baggage compartment. The trailer attached has a capacity of 34 passengers.



GASOLINE RAILWAY MOTOR CAR BUILT AT A PLANT IN THE SOUTH.

Propose to Reopen Question of Automatic Train Control.

A committee has been appointed by L. F. Loree, chairman of the eastern railroad presidents' conference, to deal with the question of automatic train control with a view to reopening the whole question before the Interstate Commerce Commission for a rehearing. The Commission, it will be remembered, on January 14 issued an order extending the time for the installation of automatic train control on the railroads from Jan. 1, 1925 to Feb. 1, 1926, and it also increased the number of lines affected from 49 to 94, as recently published in the MANUFACTURERS RECORD.

The committee is composed of W. J. Harahan, president Chesapeake & Ohio Railway; A. H. Smith, president New York Central Railroad; Samuel Rea, president Pennsylvania Railroad; E. J. Pierson, president New York, New Haven & Hartford Railroad and L. F. Loree, president Delaware & Hudson Railroad. It is stated that similar committees will represent the southern and western districts. It is proposed, according to a report from New York, that data will be submitted to compare the relative importance of automatic train control with that of abolishing grade crossings.

Huge Locomotives for Chesapeake & Ohio.

Some very large locomotives of the Mallet pattern for freight service have just been put in use on the Hinton and Clifton Forge divisions of the Chesapeake & Ohio Railway, according to announcement by President W. J. Harahan, of that system. Including the tender each of these locomotives measures 109 feet over all from end to end and its total weight is 565,000 pounds. It has sixteen driving wheels each 57 inches in diameter. Its tractive force is 103,500 pounds. The weight on the drivers when the engine is in working order is 491,000 pounds. These are all simple expansion engines of the Chesapeake type and 25 of them have been built for the Chesapeake & Ohio Railway by the American Locomotive Co. of Schenectady, N. Y., at a cost of about \$100,000 each. All will be delivered and put in operation soon. As to size and power these locomotives rank among the largest and most powerful in use anywhere.

A Good Report for 1923.

A statement of the Gulf, Mobile & Northern Railroad Co. for the year 1923 shows gross revenues of \$5,944,548 as compared with \$4,768,047 in 1922, with net income of \$940,496 in 1923 as compared with \$782,988 in 1922.

Increasing Use of Motor Trucks for Railroad Service.

Motor trucks have been placed in service by the New York Central Railroad on its electric division, and within a few weeks will also be in use on the Hudson division as far north as Poughkeepsie, N. Y. This is in addition to the motor truck service on the Putnam division announced two weeks ago, and it is likely to lead to a much greater use of the motor truck by this railroad. The new trucking service has eliminated one of two daily local way freight trains between White Plains and New York. Not only are many handlings of freight eliminated by the new system, but in many instances a saving of from one to two days in time is effected on shipments going north and west over the Hudson division. Studies are now being made for replacing three way-freight trains operating daily between Yonkers and Poughkeepsie, by motor trucks and one drop-and-pick-up train. The railroad company does not own any of the trucks but has contracted with a trucking concern to furnish as many units as may be needed.

Weekly Freight Loadings Keep Ahead of Last Year.

During the week ended January 26 the loading of revenue freight on the railroads totaled 891,326 cars, a decrease of 3950 cars as compared with the preceding week, but nearly 22,000 cars more than were loaded in the corresponding week of last year. The decline as compared with the week ended January 19 was due principally to a falling off in the amount of miscellaneous freight offered. Loadings of grain and grain products, of merchandise and less than carload lot freight, of forest products and of coke, all showed increases over the preceding week.

Street Railway to Spend \$1,500,000.

The El Paso, (Tex.), Electric Railway Co. has approved a budget for this year's construction which will it is stated require a total expenditure of over \$1,500,000. The principal work to be done includes a power plant addition to cost \$1,000,000 and a new concrete bridge to cost \$200,000. The rest of the money to be spent will be to increase facilities for distributing current to customers, substation improvements, miscellaneous equipment, etc. The company will also buy seven new street cars at a cost of \$49,000. A. H. Warren is general manager.

New Railroad Plan in Texas.

An application has been filed with the Texas State Railroad Commission at Austin, Tex., for permission to build the proposed Nueces Valley & Rio Grande Railroad from Beeville to Laredo, Tex., 135 miles, at a preliminary cost of \$3,000,000. Application has also been made to the Interstate Commerce Commission at Washington. More than \$1,000,000, it is stated, has been subscribed to the plan by towns and cities along the proposed route.

A 40-Mile Extension Proposed in Oklahoma.

An extension of about 40 miles from Forgan to Hooker, Okla., is to be built by the Beaver, Meade & Englewood Railroad Co., whose line is now only 7 miles long from Beaver to Forgan. The proposed extension has been approved, it is understood, by the Interstate Commerce Commission, as it will provide railroad facilities for a section that is now without them. Jacob Achenbach, of Hardtner, Kans., is president of the railroad.

Empire Hosiery Company Chartered.

High Point, N. C.—A charter has been secured for the Empire Hosiery Co. of this city, with a capital stock of \$100,000, to manufacture, buy, sell or deal in hosiery. J. H. Adams, J. E. Millis and E. F. Redding, all of High Point, are the incorporators.

TEXTILE

Cotton Mill Deal Involves \$3,300,000.

Griffin, Ga.—A cotton mill deal which has been closed here, involves the purchase of the Kincaid Manufacturing Co. by the Georgia Cotton Mills, both of Griffin, for a reported consideration of \$3,300,000. It is understood that a meeting of stockholders of both companies will be necessary to confirm the transaction. The new corporation will be known as the Georgia-Kincaid Manufacturing Co. and will own five mills.

There are two Kincaid mills equipped with 50,000 ring spindles and complement of looms for the production of towel-ing, crashes, damasks, etc. The three mills of the Georgia company are equipped with 28,000 spindles and accompanying machinery for the production of fancy weaves, huck towels, Terry towels and diaper cloth.

Textile Machinery Company Secures Iron Works.

H. W. Butterworth & Sons Co., Greenville, S. C., advise the the MANUFACTURERS RECORD that they have taken over the Greenville Iron Works on Markley street and will use the plant for a branch factory to care for Southern trade. The company manufactures machinery for textiles and work at the Greenville plant will be confined at first to making minor parts, repairs and refilling of rolls. To handle the work, some new machines and presses will be installed, details to be handled by the Philadelphia office of the company.

Three Knoxville Mills Consolidate.

Knoxville, Tenn.—Through the recent purchase of the Knoxville Spinning Co. and the Tennessee Mills by the Appalachian Mills, three Knoxville plants have been consolidated and are being operated by the purchasing company. The combined mills operate about 40,000 spindles and produce 6,000,000 pairs of men's heavyweight underwear annually. They employ 1600 operatives. T. Brownlee is president and Roy N. Lotspeich is vice-president, treasurer and general manager of the Appalachian Mills.

Engineers for \$500,000 Cotton Mill.

Hemp, N. C.—County Moore Mills, Inc., W. M. Cowgill, Pinehurst, N. C., president, have engaged Lockwood, Greene & Co., of Charlotte, to design and supervise the construction and equipment of their proposed cotton mill here, with village, to cost about \$500,000. Contracts for the erection of the mill building and other structures are expected to be awarded soon.

No Additions Planned at Present.

The MANUFACTURERS RECORD is advised by the Piedmont Mills Co. and the Highland Cotton Mills, Inc., both of High Point, N. C., recently reported as to make extensive additions and improvements to their plants, that they do not contemplate any additions at present. Both companies will increase their capital stock from \$250,000 to \$500,000.

Contract for Weave Shed for Lancaster Mill.

Lancaster, S. C.—Contract has been awarded to Potter & Shackleford, Greenville, S. C., to erect the three-story weave shed here for the Lancaster Cotton Mills. The building will be 104 by 180 feet, and will cost about \$75,000.

It is announced that the spring meeting of the National Association of Cotton Manufacturers, H. C. Meserve, secretary, will be held at the Copley Plaza Hotel, Boston, on April 30 and May 1.

GOOD ROADS AND STREETS

Georgia Awards Contracts for Twenty-One Miles to Cost Nearly \$250,000.

Atlanta, Ga.—Contracts have been awarded by the State Highway Department for building more than 21 miles of roads at an aggregate cost of \$245,132. The following projects are involved: Columbia County, 6.148 miles of sand-clay road and three creosoted timber bridges, Oglesby & Starke, Elberton, Ga., contractors at \$37,377; Stephens-Habersham counties, 1.414 miles of clay gravel road, Burgess & Mozeley, Toccoa, Ga., \$17,275.

For building 3 miles of waterbound macadam in Lumpkin County, T. P. Wright of Atlanta, was awarded contract at \$20,900, and for 10.537 miles of gravel road, with one bridge, in Lowndes County, J. L. Wallace of Norman Park, Ga., was awarded contract at \$159,580. The department is considering bids for a bridge over Indian Creek in Houston County, and for 1.8 miles of graded and local pebble soil road in Grady County.

Missouri Will Receive Bids on 69 Miles.

Jefferson City, Mo.—Bids will be received by the State Highway Commission at its office in this city until February 21 for the construction of 69 miles of roads distributed among a number of counties. The projects are as follows: In Atchison County, 4.002 miles of concrete; Mercer County, 4.185 miles of concrete; Grundy County, 1.917 miles of grading; Putnam County, 4.983 miles of grading; Schuyler County, 4.295 miles of grading; Randolph County, .964 miles of grading; Marion County, .845 miles of concrete; Monroe County, 5.404 miles of gravel; Howard County, 11.082 miles of grading, and Boone County, 9.301 miles of grading.

In Callaway County there will be 5 miles of gravel; Camden County, 2.286 miles of grading; Montgomery County, 3.840 miles of gravel; Osage County, 1.058 miles of grading and 2.147 miles of gravel; Warren County, .950 miles of gravel; Newton County, 3.370 miles of gravel, and Wright County, 3.501 miles of grading.

A South Carolina County Invites Road Bids.

Bishopville, S. C.—Bids will be received until February 21 by the board of county commissioners of Lee County at its office here, for building 2.618 miles of state road No. 34. Bridge work on the project will embrace three structures over Lynches River. Plans, specifications and proposal forms are on file at the office of J. M. Martin, division engineer, Courthouse, Florence, S. C., and at the office of the state highway engineer, Columbia.

Bid of \$260,000 for Topping 33 Miles.

The Commissioners Court of Webb County, Laredo, Tex., received lowest bid at \$260,000 from S. F. McElworth, of Corsicana, Tex., to widen and put a 2½-inch bituminous topping on highway No. 2 for a distance of 33 miles, to the La Salle County line. It is proposed to call for bids later to put a bituminous topping on the remaining 11 miles of the Zapata highway to the Zapata County line.

Macon May Vote on \$500,000 Improvement Bonds.

Macon, Ga.—At a recent conference of members of the city council and county commissioners in the office of the mayor, a tentative program of improvements involving the submission to the citizens of the city a bond issue of \$500,000, was decided upon. Plans as outlined, call for \$225,000 for sewers and drainage, \$125,000 for paving and \$150,000 for a bridge over the Ocmulgee River.

To Build 33 Miles at Cost of \$740,000.

Sulphur Springs, Tex.—Surveys are being made in Hopkins County for the construction of 33 miles of road on Federal aid project No. 431, from the Hunt County line to the Franklin County line, the amount of money available being \$741,043. Plans have not been completed as yet, but construction will be of macadam with inverted penetration top. J. B. Rieman is county engineer.

Mingo County Invites Road Bids.

Mingo County Court, Williamson, W. Va., will receive bids until February 25 to shape road and construct drainage structures on 6 miles of the Rockhouse Fork road, and for widening, ditching and surfacing with creek gravel .76 mile of the Williamson-Burch road. Specifications and information may be secured from Holton Cook, county engineer, Williamson.

Sarasota County Votes \$590,000 Road Bonds.

Sarasota County, Florida, has voted \$590,000 of bonds for the construction of roads and bridges, according to a telegram to the MANUFACTURERS RECORD from O. E. Roesch, clerk, Sarasota. He states that plans and specifications have not been definitely determined.

Fulton County, Kentucky, Votes \$450,000 Bonds.

Fulton County, Kentucky, has voted \$450,000 of bonds for the construction of good roads, according to P. C. Ford, president of the Chamber of Commerce at Fulton, who wires the MANUFACTURERS RECORD that the bond issue carried by an overwhelming majority.

Notes on Good Roads Construction.

Shackelford County Commissioners Court, Albany, Tex., has ordered an election for March 1 on \$500,000 of bonds to build roads.

The Commissioners Court of Starr County, will receive bids at its office at Rio Grande City, Tex., until February 27, for the construction of road No. 12, sections A and B of federal aid project No. 337.

The State Highway Department, Montgomery, Ala., plans to expend \$500,000 during the year for the construction of roads in Calhoun County. State work will probably be done in cooperation with the county board of revenue.

The State Highway Department, Jackson, Miss., will award contract February 26 at Bay St. Louis, for the construction of 11.931 miles of gravel highway, forming a part of the state trunk road from Bay St. Louis to Pearl River.

The Philpot Construction Co. of Pine Bluff, Ark., has been awarded contract at \$112,000 for about 2 miles of concrete paving in Jefferson County district No. 1. The paving will extend from 24th avenue and Cherry street, Pine Bluff, to the Country Club.

A bond issue of \$150,000 has been voted in Commissioners' Precinct, Harrold, Tex., to extend pavement west from the Wichita County line through the town of Harrold in Wilbarger County. The improvement will be on the Colorado-Gulf highway, in addition to work on lateral roads north of Harrold.

Contract has been awarded to the Oliver Construction Co., Little Rock, Ark., for building section C of the Mammoth Spring-Batesville Highway in Arkansas. The section begins at Salem and extends 17 miles south. Its cost will be \$100,000. Contracts for the three other sections of this highway have already been awarded.

LUMBER AND BUILDING MATERIALS

National Lumber Movement Curtailed.

Washington, Feb. 7.—With 367 mills reporting for last week as against 385 for the preceding week, the National Lumber Manufacturers Association's weekly review of the national lumber movement says, there was a small decline in production and considerable declines in new business and shipments. As compared with the same week of 1923 production increased about 10 per cent while orders fell off approximately 15 per cent and shipments 5 per cent. For the first five weeks of the year production has been slightly larger and shipments and orders a little less than for the corresponding weeks of 1923, which was the peak period of the lumber trade since 1914.

Unfilled orders of 264 Southern Pine and West Coast mills were 783,992,407 feet against 810,967,118 of 267 mills the preceding week. The 132 Southern Pine mills reported the order file as 311,137,569 feet against 321,994,653 for seven more mills the week before. The 132 West Coast mills reporting last week gave their unfilled orders as 472,854,838, while 128 mills gave them as 488,972,465 for the preceding week.

Of the 367 mills reporting today 348 have a normal production for the week of 212,925,283 feet, according to which actual production was normal and shipments 107 per cent and orders 100 per cent of normal production.

The 367 mills of seven regional associations had shipments of 108 and orders (new business) of 103 per cent of actual production for the week. For the Southern Pine mills, these percentages were 116 and 101, and for the West Coast, 101 and 92.

Reported unsold stocks of the mills of the five larger associations were 2,483,721,548 on January 1, 1924, and 2,145,706,653 on January 1, 1923.

Comparative figures of the lumber movement for the three weeks indicated are as follows:

	Last Week	Corresponding Week 1923	Preceding Week 1924 (Revised)
Mills	367	374	385
Production	221,516,195	201,484,400	229,532,420
Shipments	239,331,995	251,752,356	263,389,118
Orders	229,147,675	274,775,130	267,217,091

The West Coast Lumbermen's Association wires from Seattle that for the week ending February 2, 132 mills manufactured 104,068,687 feet of lumber; sold 95,898,881 feet and

shipped 106,012,640. Production was 16 per cent above normal, while new business was 8 per cent below production and shipments were 10 per cent above new business.

The Northern Hemlock & Hardwood Manufacturers Association wires from Oshkosh, Wisconsin, that on account of stormy weather only a few mills were able to report this week.

The lumber movement for the first five weeks of 1923 and for the same weeks of 1924 was as follows:

	Production	Shipments	Orders
1924	1,011,667,481	1,097,196,419	1,212,339,085
1923	958,978,188	1,185,954,555	1,348,657,731
1924 Increase . . .	54,689,293	.....	.....
1924 Decrease .....	.....	88,758,136	136,318,646

Report on North Carolina Pine.

The North Carolina Pine Association reports as follows on 43 mills for the week ending February 2:

	Total Feet
Orders	7,113,600
Shipments	7,740,553
Production	7,783,256
Normal Production	11,616,000

The orders were 8 per cent below shipments, 9 per cent below actual production and 39 per cent below normal production. Shipments were one-half per cent below actual production and 33 per cent below normal production. Actual production was 33 per cent below normal. The week shows a decrease in orders of 1,035,400 feet or 12 per cent.

Use of Common Brick Mounts Steadily.

"The common brick industry has gained in three years 60 per cent of the losses of the previous 20 years of inactivity in a promotional way," states the current monthly digest prepared by the Common Brick Manufacturers Association of America. Outlining the plans fostered by the industry for building business the digest says: "For three years the brick manufacturers have been devising ways of making their product of greater use to the public. During that time the Ideal wall has been developed, making lower cost homes of brick possible. Co-operative promotion methods of their product has reacted on the brick manufacturers themselves, and the order of the day is new and improved methods of

LUMBER MOVEMENT FOR FIVE WEEKS, AND FOR WEEK ENDING FEBRUARY 2.

	Production		Shipments		Orders	
	1924	1923	1924	1923	1924	1923
Southern Pine Association:						
Total	349,210,929	351,883,129	396,258,459	425,226,486	420,069,279	500,630,242
Week (132 mills).....	73,842,952	76,046,904	85,351,278	90,865,278	74,494,194	96,052,927
West Coast Lumbermen's Ass'n.:						
Total	461,267,100	418,735,765	465,918,828	501,996,752	490,680,206	564,606,060
Week (132 mills).....	104,068,687	88,943,839	105,601,264	106,667,592	95,898,881	112,520,703
Western Pine Mfrs. Ass'n.:						
Total	75,216,000	59,289,000	110,935,000	118,984,000	142,675,000	122,625,000
Week (31 mills).....	18,412,000	13,218,000	23,459,000	26,298,000	28,700,000	32,475,000
Calif. Redwood Ass'n.:						
Total	38,811,000	32,248,000	35,970,000	40,711,000	37,959,000	63,125,000
Week (15 mills).....	9,033,000	7,782,000	7,482,000	10,339,000	6,564,000	15,701,000
North Carolina Pine Ass'n.:						
Total	29,044,652	34,425,094	31,104,432	37,300,817	44,416,600	40,607,427
Week (38 mills).....	6,691,656	4,948,757	6,874,253	6,350,886	8,034,600	7,827,500
Northern Hemlock & Hardwood:						
(Softwood) Total.....	8,060,000	9,306,000	8,235,000	8,726,000	11,498,000	10,352,000
Week (9 mills).....	307,000	985,000	967,000	1,045,000	1,798,000	743,000
Northern Pine Mfrs. Ass'n.:						
Total	32,158,800	36,846,200	36,659,700	40,160,500	48,472,000	33,898,000
Week (10 mills).....	6,554,900	7,118,900	8,303,200	8,328,600	12,291,000	8,246,000
General Total for 5 weeks:						
(Softwood)	993,768,481	942,733,188	1,085,081,419	1,173,105,555	1,195,770,085	1,335,843,731
Northern Hemlock & Hardwood:						
Hardwoods (5 weeks).....	17,899,000	14,245,000	12,115,000	12,849,000	16,569,000	12,814,000
Calif. White & Sugar Pine Mfrs.:						
(5 weeks).....	26,123,000	.....	61,012,000	.....	.....	.....
General Total for week.....	221,516,195	201,484,400	239,331,995	251,752,356	229,147,675	274,775,130
Calif. White & Sugar Pine reports not included in totals, because "orders" not reported.						

production and greater pride in their industry. The attitude of brick manufacturers generally may fairly be typified by a letter just received from a member in Connecticut: 'Business is exceptionally good in this section and we are installing new machinery and getting our plants in readiness for a big year. Conditions are different than they have ever been before, there is much less brick on hand unsold than ever before.'

Discussing general conditions in the common brick industry the digest adds: "Remarkably few plants are closed down. Every brick manufacturer who possibly can, is running full blast. There are even fewer plants closed down than on December 1. On the latter date 39 out of 136 were reported closed. This month only 30 plants out of a total of 120 are reported closed down."

Big Combination of Turpentine Interests.

New Orleans, La.—Various turpentine and rosin producing interests associated with or controlled by the Gillican-Chipley Co. of this city, have been combined into a single organization to be known as the Gillican-Chipley Co. Among others, the consolidation embraces the Betts Naval Stores Co. of New Orleans, operating in Florida; Southwestern Land & Turpentine Co., also of New Orleans, operating in Mississippi, and the New Orleans Naval Stores Co.

The new company also acquires ownership of half of the Florida Industrial Co., which is said to own about 1,150,000 acres of standing yellow pine timber in south Florida.

Three large sawmills are now engaged in converting this timber into lumber and it is planned to install a number of other mills during the year.

The new company will also have a controlling interest in more than a dozen smaller affiliated companies and will hold contracts covering the extraction of turpentine from large tracts of timber. Every step in the production of naval stores will be included in its operations.

Financial arrangements incident to the consolidation were handled by Caldwell & Co. of Nashville, Tenn.

Heavy Shipments of Southern Pine.

The Southern Pine Association for the week ended February 1 reports as follows on 132 mills:

	Cars	Feet
Orders on hand beginning of week.....	14,117	321,994,653
Orders received during week.....	3,266	74,494,194
Total	17,383	396,488,847
Shipments during week.....	3,742	85,351,278
Orders on hand end of week.....	13,641	311,137,569

Production for the week was 73,842,952 feet. Shipments were 11,508,326 feet above production or 15.58 per cent. Orders were 651,242 feet or .88 per cent above production. Orders were 10,857,084 feet below shipments or 12.72 per cent. The week was 9.04 per cent or 7,338,331 feet below normal production, and orders were 8.24 per cent or 6,687,089 feet below normal production. The decrease in orders on hand amounted to 10,857,084 feet or 3.37 per cent.

Will Erect Steel Buildings to Take Place of Burned Brick Plant.

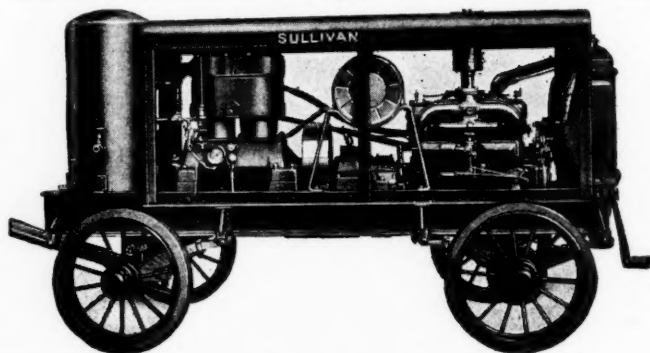
The Arkansas Brick & Tile Co. of Little Rock wires the MANUFACTURERS RECORD that fire has destroyed the boiler room, engine room and brick machine room of their plant. The company plans to erect a steel building and wants estimates from manufacturers of such buildings. Prices are desired on brick machines, pug mills, disintegrators, rock rolls, belting, line shafting, etc. The fire will not interfere with filling contracts, as there are several millions of brick on hand at the plant.

The company also have plants in operation at Malvern, Perla and Pine Bluff.

MECHANICAL

Portable Compressor on Rubber Tires.

In the accompanying illustration is shown a portable gasoline engine driven air compressor mounted on a trailer truck equipped with rubber tires on the wheels and with springs so that it may be drawn by a motor truck. These machines are built by the Sullivan Machinery Company, of Chicago, who also make them with steel tired wheels and a pole for drawing by a team of horses. This new outfit with rubber tires has been used considerably of late in Baltimore and



COMPRESSOR WITH SIDES REMOVED.

other cities for street repair work because it is better adapted to run on pavement than is the outfit with the steel wheels. The main frame of the truck is of 10 inch channel iron, strongly braced. The rear axle is of steel, 2 1/4 inches square and the front axle is a truss construction with steering knuckles for the wheels. The knuckles are linked up with the draw bar which has an eye bolt and a recoil spring for attaching to a truck. The tires are of solid rubber, 32 by 4 inches, and the wheels run on Timken bearings, the rear wheels having band brakes of the internal expanding type. The Alemite grease system is employed.

This portable compressor, known as WK-311, is a practical and useful road contractors' machine, which has been redesigned, the compressor having been increased to 170 cubic feet displacement per minute, which enables users to simultaneously operate two Rotator hammer drills at 100 pounds pressure for holes to 14 feet in depth if desired. A new transmission has also been provided, this consisting of a simple and substantial gear reduction to cut down the engine speed suitably for compressor operation. The Buda YTU four cycle, four cylinder engine is retained because of its simplicity and reliability. To run the compressor at full speed and pressure 31 horsepower is required and with this a substantial margin of power remains in the engine. The truck body is very substantial and it is equipped with a steel canopy top and steel removable sides so that when desired it can be securely protected against the weather as well as against harm from any other source. The compressor was exhibited at the recent Road Builders Convention in Chicago.

Lumber Company Capitalized at \$500,000.

Weston, W. Va., February 9—[Special.]—The Westwood Lumber & Manufacturing Co., capitalized at \$500,000, has perfected its organization with the election of the following officers: S. L. Richards, president; C. L. West, vice president; John Hailston, secretary, and Louise M. Richards, treasurer.

The city of Orlando, Florida, has sold \$525,000 of 5 1/2 per cent waterworks and electric light bonds. J. A. Stinson, city clerk, wires the MANUFACTURERS RECORD: "Caldwell & Co., Nashville, Tenn., paid \$544,425."

Construction Department

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Ala., Mobile—Gulf Ports Terminal Ry. Co., L. S. Wilkinson, Supt., Pensacola, Fla., plans building 7 mi. bridge over Mobile Bay; U. S. Dist. Engr., Earl North approved plans.

Florida—State Road Dept., Tallahassee, will receive bids until Feb. 26 for 3 reinforced concrete and steel bridges as follows: Project No. 36-A, Road No. 4, St. Lucie County, three 24-ft. reinforced concrete spans, 24,637 lbs. steel; No. 608, Road No. 4, Brevard County, 24-ft. and 20-ft. reinforced concrete spans, or two 14-ft. treated timber spans, 33,000 lbs. steel; No. 620, Road No. 4, St. Lucie County, two 24-ft. reinforced concrete spans or three 15-ft. treated timber spans, 21,000 lbs. steel; plans, etc., on file or from Div. Engr.; J. L. Cresap, Engr.

Fla., Miami—Dade County Commrs. receives bids until Feb. 13 for reinforced concrete bridge across Baker's Haulover Cut; plans, etc., from Hobart Crabtree, County Engr., Court House.

Fla., St. Augustine—St. Augustine North Beach & Toll Bridge Co., will receive bids soon for steel bascule bridge over North River, and completing abutments, causeways, roads and approaches; plans, etc., from W. J. Hoggson Corp., W. J. Hoggson, Pres., Room 2005, 18 E. 41st St., New York City.

Fla., St. Petersburg—Tampa Shipbuilding and Engineering Co., Tampa, was awarded contract at \$68,671 for drawbridge at Gandy Bridge; double leaf Bascule type, with 75-ft. span above deep water channel where there is depth of 23 ft.

Ga., Athens—Clarke County Commrs. will receive bids soon to build concrete bridge over Oconee River at Oconee St. crossing where Lexington-Augusta-Athens road leads from city.

Ga., Macon—Details under Road and Street Construction.

Georgia—State Highway Dept., Atlanta, will build 4 bridges. Details under Road and Street Construction.

Ky., Hickman—Details under Road and Street Construction.

Missouri—State Highway Dept., Jefferson City, will receive bids until Feb. 21 for 5 bridges as follows: Camden County, 2, on road from Lebanon to Linn Creek; over Holder Branch, three 20-ft reinforced concrete slab spans; 4 reinforced concrete bents; 20-ft. roadway; over Macks Creek, one 40-ft. and two 30-ft. reinforced concrete deck girder spans; mass concrete abutment; 2 concrete piers; reinforced concrete bent; 20-ft roadway; Osage County, over Little Loose Creek on road from Jefferson City to St. Louis, three 20-ft reinforced concrete slab spans; 2 reinforced concrete piers and abutments; 20-ft. roadway; Randolph County, over Elk Forks, on road from Moberly to Hannibal, three 25-ft. reinforced concrete deck girder span; 4 reinforced concrete bents; 20-ft. roadway; Wright County, over Stream, on

road from Mansfield to Springfield; 20-ft. reinforced concrete slab span; 2 reinforced concrete abutments; 20-ft. roadway; B. H. Piepmeyer, Ch. Engr.

Missouri—State Highway Dept., Jefferson City, will receive bids until Feb. 21 for 8 bridges as follows: Boone County, 4 on road from Kansas City to St. Louis, Federal and State Aid Project, Routes 229-A and B; over Perchee Creek, three 60-ft. steel truss spans; concrete floor; 20-ft. roadway; two 18-ft. reinforced concrete slab spans, 4 reinforced concrete piers; 2 reinforced concrete pile bents; over stream, 50-ft. steel truss span, 20-ft. roadway; wood floor; two 16-ft. I-Beam spans; 4 creosoted wood pile bents; over Stream, two 12-ft. reinforced concrete slab spans; 20-ft. roadway; concrete pier; 2 reinforced concrete abutments; over Stream, two 10-ft. reinforced concrete slab spans; 20-ft. roadway; concrete pier; 2 reinforced concrete abutments; Howard County, 4 on road from St. Louis to Kansas City, Federal and State Projects, Route 235-A; over Stream, 30-ft. I-Beam span; creosoted wood floor; 20-ft. roadway; 2 creosoted wood pile bents; over Boone Femme Creek, 80-ft. steel truss span; concrete floor; 20-ft. roadway; six 20-ft. reinforced concrete slab spans; 2 reinforced concrete piers and pile bents; over Stream, 10-ft. reinforced concrete slab span; 20-ft. roadway; 2 reinforced concrete abutments; over Moniteau Creek, 42-ft. reinforced concrete deck girder span; 20-ft. roadway; six 20-ft. reinforced concrete slab spans; 8 reinforced concrete bents; B. H. Piepmeyer, Ch. Engr.

Tex., Houston—Harris County plans reconstructing all bridges not concrete or creosoted on Katy Road; estimated cost \$38,000; Howe & Wise, Engrs., 812 First National Bank Bldg.

S. C., Abbeville—Abbeville County let contract to P. S. Minus, Spartanburg, at \$47,302.38 for 5 bridges and culvert on Calhoun Highway, between Abbeville and Calhoun Falls.

S. C., Bishopville—Lee County will build 3 bridges. Details under Road and Street Construction.

S. C., Chesterfield—Chesterfield County Commrs. receives bids until Feb. 12 to build 2 culverts on State Route No. 41, Project No. S-513, as follows: Double 5-ft x 5-ft. reinforced concrete culvert at Reedy Branch; double 6-ft. x 6-ft. reinforced concrete culvert at Spot Mill Creek; 6336 lbs. steel reinforcement; plans, etc., from State Highway Engr., Columbia.

Tex., Cameron—Milam County Commrs. plan building bridge across Little River, ¼ mi. from present McCown Bridge; concrete piers; estimated cost \$100,000; A. F. Mitchell, County Engr.

Tex., Trinity—Trinity County will receive bids until March 11 to rebuild iron bridge across White Creek on Groveton-Trinity road, 4 mi. east of Trinity; plans, etc., from Fred J. Berry, County Judge.

W. Va., Stollings—Logan County let contract to E. R. Mills, Newport, Ky., at \$6969 for bridge across Dingess Run; steel pony, 72-ft. 6-in. span; 5-ft. sidewalk.

Canning and Packing Plants

Mo., Bolivar—L. C. Viles is president of company organized to operate canning plant.

Clayworking Plants

Ark., Little Rock—Arkansas Brick & Tile Co. will rebuild boiler room, engine room and brick machine room, recently burned; will probably erect steel building; invites estimates of manufacturers of steel buildings, prefer that they send representatives to take measurements and give estimates; will rebuild at once and will have plant in operation in 60 days. (See Machinery Wanted—Steel Buildings; Brick Making Machinery; Pug Mills; Disintegrators; Rock Rolls; Belt-ing; Line Shafting, etc.)

Ky., Louisville—Whaley Brick Co., capital \$25,000, incorporated by Wm. E. Whaley, Wm. C. Hall and others.

Va., Clarendon—Lamond Brick and Tile Co., capital \$150,000, incorporated with C. C. Lamond, Pres.; Agnus W. Lamond, Sec.; will establish plant on Potomac River about one mile from Alexandria.

Coal Mines and Coke Ovens

Ky., Seibert—Lorena Coal Co., Pineville, Ky., lately noted incorporated, D. E. Starbuck, Pres., S. D. Dills, Sec., both of Pineville; has 365 acres of coal land and will develop; daily output 100 tons.

Va., Norton—Huettel Coal Corp., increased capital from \$10,000 to \$25,000.

W. Va., Huntington—M. M. Tyree Coal Co., capital \$100,000, incorporated by M. M. Tyree and H. A. Robson, both of Huntington, Alex. McNabb of Mt. Hope, W. Va.

West Virginia—Simpson Creek Collieries Co., care of Yougheny & Ohio Coal Co., Cleveland, Ohio, purchased the Galloway mines Nos. 1, 2 and 3 in the Flemington Dist.; property includes well equipped mines, 2700 acres coal lands, etc. H. L. Findlay, Pres. of the Simpson Creek Collieries Co., advises by wire "We have purchased from the Simpson Creek Coal Co. approximately 2700 acres thick vein Fairmont coal property, developed by Galloway, Nos. 1, 2 and 3 mines, present capacity 4000 tons daily; have no immediate plans for further development."

Concrete and Cement Plants

Fla., Avon Park—Keebler Cement Products Co., Knoxville, Tenn., will establish a cement products plant for making brick cement tile shingles, etc.

Fla., Bartow—Shearman Concrete Pipe Co., Knoxville, Tenn., will establish a branch plant; company has contract to furnish 11 miles of sewer pipe.

Ky., Louisville—Louisville Cement Co., in-

creased capital from \$2,100,000 to \$2,250,000.

La., Shreveport—Houseman Roofing Co., Inc., 1521 Pierre Ave., will erect 36x90-ft. building, \$4000, construction by owner; install roofing tile machinery about \$4000, to manufacture waterseal concrete roofing tile.

Cotton Compress and Gins

Ark., Searcy—Searcy Cotton Compress Co., A. J. Matthews, of Russellville, Ark., will rebuild plant lately destroyed by fire at loss of \$100,000.

S. C., Roebuck—Roebuck Gin Co. increased capital from \$2500 to \$10,000.

Tex., Canyon—Dr. J. M. Black, C. R. Burrows and others reported to erect \$25,000 cotton gin.

Drainage and Irrigation

Ark., Texarkana—McKinney Bayou Drainage Dist. Comms. let contract to Fred M. Crane Construction Co., Omaha City, Neb., to construct 9 mi. of levee and about 47 mi. ditches, reclaiming approximately 32,000 acres of Red River bottom lands; has \$450,000 available.

Texas—Major Charles E. Cooke of the U. S. Geological Survey, Austin, Tex., making surveys in Dallas, Tarrant and Denton Counties on the Trinity; E. O. Brooks and C. E. Walker, in charge of levee work; construction is under way in the Wylie section, new survey contemplates a dam near Carrollton, to be used for flood conservation, irrigation, etc.; dams on the Trinity also contemplated at Carlisle, Trinity County, for irrigation purposes.

Electric Light and Power Plants

Fla., Melbourne—City will vote March 8 on granting franchise. (Lately noted).

Fla., Pahokee—Pahokee Utilities Co., capital \$10,000, incorporated with Dr. D. S. Spooner, Pres.; J. H. Cason, Sec.-Treas.; will erect an doperate power plant to manufacture ice, furnish water and electricity to residents along East Beach.

Fla., Winterhaven—Details under Land Developments.

Ga., Atlanta—Central Georgia Public Service Co. applied to State Public Service Comsn. for permission to issue \$1,000,000 in common stock and \$2,250,000 in 7 per cent bonds; proceeds to be used in construction of steam power plant in Bibb County.

Ga., Hinesville—H. Lowe and others interested in installing electric lights.

Mo., Florence—Missouri Utility Co., Mexico, Mo., has 25 year franchise to furnish city with electric lights.

Ga., Macon—Central Georgia Power Co., W.

H. Felton, Pres., let contract for equipment of first unit of \$3,000,000 electric and steam power plant located on 22 acre tract about 2 miles north of Macon; plant will be owned by Central Georgia Public Service Co., charter for which has been applied for, but will be leased and operated by Central Georgia Power Co.; first unit will develop 13,000 h.p.; ultimate capacity 5 units; L. A. Magraw, Gen. Mgr.; wire to the Manufacturers Record from the Central Georgia Power Co. states Contract has been awarded to the Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., for turbines and condensor; to Heine Boiler Works, St. Louis, for boilers; and to Combustion Engineering Co., 43 Broadway, New York City, New York for stokers; Henry L. Doherty Co., Engrs., 60 Wall St., New York City.

Ky., Burlington, Mail Walton—D. C. Ketcham, Pres., of Boone County Electric Service Co., will construct 9 miles of electric transmission line, cost \$15,000; work by own organization.

La., New Orleans—New Orleans Public Service Co., Inc., will issue \$7,500,000 additional common stock. (Lately noted as reported to expend about \$5,000,000 for additional facilities.)

Md., Baltimore—American Superpower Corp., 626 Equitable Bldg., incorporated by Samuel B. Howard, Arthur W. Britton and others.

Miss., Hattiesburg—Exchange Club, C. P. Smith, Chrmn., will install white way system.

Tex., San Antonio—Details under Land Developments.

Mo., Hartville—Commercial Club will petition city council to call election to vote on \$10,000 bond issue to build dam across Wood's Fork on Gasconade River near Hartville, to provide facilities for electric light plant.

Mo., St. Louis—Henry B. Weisels, Pres. of Delmar Boulevard Improvement Assn. of University City, let contract to Union Electric Light & Power Co. for white way system on Delmar Boulevard from Skinker Road to Harvard Ave.

N. C., Greensboro—General Gas & Electric Corporation, 50 Pine St., New York City acquired controlling interest in North Carolina Public Service Co. operating public utilities in Greensboro, High Point, Salisbury, Spencer, East Spencer and Concord.

N. C., Rocky Mount—Watson Electric Co., capital \$25,000, incorporated by V. S. Watson, N. Demal and others.

Tenn., Erin—Erin Utilities Co. has received 99 year franchise to erect and operate transmission line to Cumberland City; distance of 8 miles; will furnish lights and power to city.

Tenn., Jackson—Jackson Railway & Light Co. will expend approximately \$95,000 in improvements to plant; including 2000 K. W. turbine and 505 h.p. Sterling boiler, etc.

Tenn., Springfield—City Council contracted with Tennessee Electric Power Co., Chattanooga, Tenn., to furnish the city with electric current.

Tex., Childress—Texas Central Power Co. will extend electric light and power service to Hedley in Donley County.

W. Va., Charleston—Interstate Power Co. E. A. Turner, Supt. of Construction, will apply on March 1 to County Court of Kanawha County for permission to extend electric lines, poles, etc., for purpose of transmission of electrical energy.

Fertilizer Plants

Tex., Henderson—Oil Mill & Fertilizer Works, capital \$20,000, incorporated by Homer Harris, Sr., J. R. Alford and others.

Flour, Feed and Meal Mills

Ky., Falmouth—Pendleton Flour Mills, incorporated by G. C. Parson, J. L. Bedford and G. W. Shelton.

Mo., Mokane—St. Charles Milling Co., of St. Charles, Mo., contemplates establishing flour mill and elevator.

Tenn., Morristown—Morristown Flour Mills lately noted increasing capital from \$60,000 to \$150,000, is adding feed mill to present plant, capable of producing 4000 bags of feed per eleven hours; contract for machinery and installation let.

Tex., Fort Worth—E. G. Rall Grain Co. will construct 10 grain storage tanks; reinforced concrete; each 92 ft. high and 19½ ft. in diameter; increasing plants capacity to 1,000,000 bushels of grain; construction begun.

Foundry and Machine Plants

Ala., Anniston—Anniston Foundry Co., will rebuild portion of plant, burned at loss of \$25,000.

Ala., Anniston—Central Foundry Co., E. P. Cooper, Mgr., will rebuild plant, burned at loss of \$100,000.

Ala., Birmingham—Florida Cooperative Machinery Works, Tampa, Fla., reported to remove \$100,000 machinery manufacturing plant to Birmingham; company manufactures agricultural machinery, automobile lamps, etc.

Ala., Fairfield—Tennessee Coal, Iron and Railroad Co., Birmingham, Ala., George Gordon Crawford, Pres., reported to erect addition to steel foundry, increasing output of castings.

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MANUFACTURERS RECORD

BALTIMORE, MD.

Ala., Selma—Union Works Co., James B. Ellis, Pres., will increase capital from \$60,000 to \$75,000.

Mo., Kansas City—J. J. Mahoney of the California Pipe Line Machine Co., will erect 1-story, 100x133-ft. factory type building corner 14th and Chestnut Sts., brick and concrete, with concrete floor; estimated cost \$20,000; construction to begin at once; building will be occupied by the California Pipe Line Machine Co. and the Unit Motor Co.; G. W. Swehla, Archt.

Tenn., Chattanooga—Dudley Bar Co., 1108 Carter St., increased capital to \$800,000; incorporators are E. H. Cairns, Wm. W. Brooks, Jr., and others.

Tenn., Knoxville—Knoxville Furnace & Blow Pipe Co., incorporated by Wylie J. Clifton, E. D. Russell and others.

Gas and Oil Enterprises

Fla., Palmetto—Tri County Oil Co. has received rig from Akron, Ohio, to put down first oil well in Manatee County at Palmetto, expected to begin drilling within 2 weeks.

Fla., West Palm Beach—R. B. Wagner, Vice President, Consumers Gas & Coke Co., Waycross, Ga., has acquired West Palm Beach Gas Co.'s plant; E. W. Combs, Consulting Engr., Waycross.

Ky., Ashland—Ashland Refining Co., capital \$500,000, incorporated by Paul G. Blaze, Thomas A. Coombs and others, all of Lexington, Ky.; will erect refinery.

La., New Orleans—Victory Oil Co. will rebuild distributing plant, lately noted burned at loss of about 50,000.

La., Shreveport—Southwestern Gas & Electric Co. plans expending approximately \$1,500,000 in improvements and extension during 1924.

La., Shreveport—J. H. Williams Drilling Co., capital \$50,000, incorporated with E. J. Deas, President; J. H. Williams, Sec.-Treas.

Md., Baltimore—Consolidated Gas, Electric Light & Power Co., Lexington Bldg., will erect 3-story, steel building at Race and Barney Sts.; 113x65x64 ft.; building will be addition to No. 3 generator house.

Mo., Skidmore—Independent Oil Co., incorporated by Wm. T. Gillan, R. C. Dodds and others.

N. C., Charlotte—Gulf Refining Co. will erect two one-story brick oil storage houses on Liddell St.; cost \$10,000.

N. C., Biscoe—Sand Hill Oil Co., capital \$50,000, incorporated by L. W. Brown, T. R. Brown and others.

N. C., Winston-Salem—Winston-Salem Gas Company acquired 7½ acre site on Bank St. and will erect gas plant.

S. C., Spartanburg—Gulf Refining Co., Frick Bldg., Pittsburgh, Pa., will establish distributing station on Union St.

Tenn., Memphis—Pan-American Southern Petroleum Co. will erect two 15,000 bbl. capacity gas tanks, estimated cost \$40,000.

Tenn., St. Elmo, Branch of Chattanooga—Fowler and Lewis, 5415 Beulah Ave., are organizing company to erect plant with daily capacity of 50 bbl. oil; 40 x 80 ft.; stone and concrete block; six 100 bbl., one 300 bbl., one 250 bbl. and one 100 bbl. still; 3000 ft. of ½ to 4-in. pipe line; will open construction bids within 30 days; T. E. Lewis, Engr. (Lately noted).

Tex., Amarillo—W. A. Letson will construct 12-in. gas pipe line from Amarillo to Lubbock, intersecting laterals will also be laid to serve Canyon, Plainview and other towns.

Tex., Beaumont—Magnolia Products Co., Houston, Tex., E. C. Bracken, Gen. Mgr., will establish gas manufacturing plant.

Tex., Graham—Phillips Petroleum Co. contemplates construction of gasoline plant.

Tex., Houston—Inland Harbor Oil Co., capital \$15,000, incorporated by J. W. Taylor, D. L. Palmer and others.

Tex., Houston—M. and S. Drilling Co., capital \$27,000, incorporated by F. M. Mays, T. L. Smith, Jr., and others.

Tex., Luling—Dr. F. L. Thompson, Pres. of Graysburg Oil Co. of San Antonio, Tex., has acquired 40 acre lease of Royal Oil Co., including 7 producing wells, storage tanks and other equipment.

Ice and Cold-Storage Plants

Ark., Hot Springs—Hot Springs Ice & Cold Storage Co., capital \$75,000, incorporated with Sam G. Smith, Pres.; F. L. Thompson, Sec.; will erect ice plant of at least 30 tons capacity in conjunction with cold storage plant.

Fla., Pahokee—Details under Electric Light and Power Plants.

Fla., Umatilla—City, C. A. Vaughn contemplates installing raw water ice machine. At present are using distilled water machine. Lately noted. (See Machinery Wanted—Ice Machine).

Mo., Thayer—Details under Water Works.

Tex., Elgin—Elgin Ice & Cold Storage Plant, Robert Thompson, owner, Taylor, Tex., let contract to Blackmore Brothers, Austin, Tex., at \$11,681 to erect ice plant, concrete construction; H. F. Kuehne, Archt., 826 Littlefield Bldg., Austin.

Iron and Steel Plants

Ala., Fairfield—Details under Foundry and Machine Plants.

Ky., Ironton—Belfont Iron & Steel Co., reported formed by merger of Belfont Iron Works Co. and Kelly Nail & Iron Co.; increased capital to \$5,000,000; will move Kelly mill and consolidate with the Belfont plant; also erect open hearth steel plant on present site of Kelly mill.

Md., Baltimore—Eugene G. Grace, Pres., Bethlehem Steel Co., reported to have authorized the expenditure of \$500,000 to remodel rail mill at Sparrows Point, improvement to begin at once.

Land Development

Ala., Tuscumbia—R. T. and J. H. Flatman have four acres and will develop a nursery.

Fla., Miami—Fulford-by-the-Sea Development Co. let contract to Howard D. Fiedler, for construction of complete water tower and tank with capacity of 15,000 gals, equipped with automatic pump; this will be the first unit of a series of 4 of like capacity to be built in subdivision.

Fla., Sarasota—City engaged John Knowland, Cambridge, Mass., to plan survey for projected improvements, to include extension to sewer system, improvements to water works and widening streets.

Fla., Tavares—Florida Fern & Development Co., will develop 2 acres across the canal on Leesburg Road for fernery.

Fla., Winter Haven—J. S. Alexander interested in development of hundreds of acres of land in bananas.

Fla., Winterhaven—Witherspoon Fielden Development Co., capital \$100,000, incorporated with T. P. Witherspoon, Pres., Knoxville, Tenn.; C. R. Fielden, Sec., Knoxville; will develop 225 acres for sub-division; will install water works; electric light; roads and streets; erect residences.

Ky., Ashland—Caudill, Keeton & Teal Realty Company, 621 Ashland National Bank

Building, incorporated by Will H. Caudill, Alonzo Keeton and others.

Ky., Louisville—City, Huston Quinn, Mayor, contemplates voting on \$750,000 bonds for extension and improvements to parks.

La., Baton Rouge—Triumph Realty Co., Ernest Cazedessus, Pres., has acquired tract of land and will develop for residential site.

La., New Orleans—Victor J. Passera acquired tract of land and will develop for sub-division, install sidewalks, streets, etc.

Md., Elkton—White Hall Farms, Inc., capital \$100,000, incorporated by Thomas W. Bacchus, Thomas W. Bacchus, Jr., and others.

Md., Snow Hill—Public Landing Realty Co., capital \$100,000, incorporated by Thomas M. Purnell, Oliver D. Collins and others.

Mississippi—E. W. Gates, Crossett, Ark., and others have purchased 1800 acre cotton plantation in Washington and Issaquena counties; will develop in staple cotton, etc.

Mo., Kansas City—Gary Loomis Real Estate & Investment Co., capital \$65,000, incorporated by Theo. Gary, W. H. Loomis and others.

Mo., Kansas City—K. C. Building Co., capital \$50,000, incorporated by Paul R. Byrum, H. M. Davis and others.

Mo., Kansas City—Hayes Realty Co., incorporated by W. M. Jaccard, E. Jennings and others.

Mo., Kansas City—Gillham Realty Co., incorporated by Ralph Fink, Archie Josephson and others.

Mo., Kennett—Kansas City Joint Stock Land Bank is contemplating clearing and cultivating 1000 acre tract of land in Stoddard county; propose to clear land this year and erect complete set of farm buildings in each 80 acre tract.

Mo., St. Joseph—Richland Investment Co., incorporated by Hugh J. Bowen, J. L. Tucker and others.

Mo., St. Louis—Central Holdings Co., capital \$110,000, incorporated by M. Cohen, I. Cohen and others.

N. C., Battleboro—Bryan Farms, Inc., capital \$49,000, incorporated by C. W. Wynne, Battleboro; A. O. Bryan, Enklins and others.

N. C., Chapel Hill—Lamba Corporation, capital \$15,000, incorporated by L. H. Manning, Henry D. Duls and others.

N. C., Greensboro—Jefferson Standard Life Insurance Co. acquired 184 acres of land and will develop for country club.

N. C., Greensboro—Lindley Park, Inc., capital \$100,000, chartered by Chas. A. Banks, Jr., C. D. Hess and others.

S. C., Darlington—Gardner—Green Co., capital \$15,000, incorporated with C. E. Gardener, Pres.; J. J. Green, Sec.-Treas.

S. C., Greenville—Traxler-McManus Co. will develop Traxler Park; will install six inch water mains over principal part of park and 2-in. pipe over balance; improve streets and sidewalks; have just begun development work and will purchase necessary materials within near future.

St. Louis—Burton Building & Investment Co., incorporated by W. G. Burton, J. A. Keister and others.

Tenn., Ducktown—Tennessee Copper Co. reported to survey and lay out an addition to Ducktown.

Tex., Dallas—North Texas Trust Co., Inc., through Koch & Fowler, landscape engineers, have engaged W. J. Graham, to supervise landscaping, etc., of Kessler Park subdivision.

Tex., Port Arthur—Dr. W. B. Johnson acquired tract of 1600 acres and will develop.

Tex., San Antonio—H. R. Forsythe of New

York and N. E. Parris of Boston, have acquired through T. J. Williams of San Antonio, Sutherland Springs, a tract of 1000 acres and will develop; will construct tourist hotel, 125 rooms, Spanish-Italian architecture; concrete swimming pool; hydro-electric plant on Cabolo River; 18-hole golf course; remodel old hotel into sanitarium, erect number of cottages, etc.

Va., Franklin—Camp Corp., chartered with J. L. Camp, Pres.; J. L. Camp, Jr., Sec.

W. Va., Fairmont—Monogah Realty Co., capital \$25,000, incorporated by P. A. Sacchi, J. E. Kennedy and others.

Va., Norfolk—T. J. East Development Co., capital \$50,000, incorporated with Thomas O. Farrell, Pres.

W. Va., Cora—Belcher Land Co., main office Logan, W. Va., capital \$25,000, incorporated by Lee Belcher, Parker Stewart and others.

W. Va., Gilbert—White Land Co., lately noted incorporated with \$25,000 capital, organized with J. W. White, Pres.; has 40 acres and will develop.

W. Va., Hurricane—Inter-Urban Land Co., main office Huntington, W. Va., capital \$25,000, incorporated by L. J. Cordly, Stewart H. Bowman and others, all Huntington.

W. Va., Williamson—Tug Valley Realty Co., capital \$25,000, incorporated by I. Strickler, Ireland James and others.

Lumber Enterprises

Ala., Berry—W. P. Brown Lumber Co., of Fayette, Ala., has under construction planing mill, cost approximately \$50,000.

Ala., Waterloo—Herbert F. Young Lumber & Land Co., capital \$175,000, incorporated by G. A. Hazard, H. N. Young and others.

Md., Baltimore—Magazine Lumber Co., 1001 N. Calvert St., capital \$50,000, incorporated by Richard P. Baer, Frank L. Heim and others.

Mo., St. Louis—Ball Lumber Co., capital \$50,000, incorporated with H. C. Ball, Pres., 1624 Arcade Bldg.

Tenn., Memphis—Central Lumber Co., 801 Roland St., capital \$16,000, incorporated by B. E. Berry, H. L. Thompson and others.

Tex., Maydelle—Meshaw Lumber Co., capital \$10,000, incorporated by S. J. Jones, B. B. Perkins and others.

Tex., San Antonio—Couch-Ables Lumber Co., capital \$50,000, incorporated by Q. C. Couch, H. T. Ables and others.

Va., Rock Gap—Bell Lumber Co., Inc., increased capital from \$25,000 to \$50,000.

Va., Millboro—Craigsville Lumber Co., capital \$10,000, incorporated with Charles A. Bloyd, Pres., Moundville; C. A. Spence, Sec., Millboro.

W. Va., Weston—Westwood Lumber & Manufacturing Co., capital \$500,000, incorporated with S. L. Richards, Pres.; John Hailston, Sec.

Metal-Working Plants

Mo., St. Louis—Brock Engineering Co., Inc., Arcade Bldg., have leased building to assemble equipment, are manufacturers of patented mechanical feedwater purifier for steam boilers. (Lately noted.)

Tenn., Chattanooga—Crane Enamelware Co., increased capital from \$1,500,000 to \$3,500,000. (Lately noted to double capacity of plant.)

W. Va., Charleston—Laurel Co., capital \$25,000, organized with J. L. Pullen, Pres.; E. S. Sites, Sec., A. Waddell, Mgr.; has one plant, will build more later, install additional equipment and machinery; expending about \$10,000; build and manufacture plants for

aluminum, brass, copper and chemical products; will probably need 5 to 10 h.p. motors, compressors and moulds.

Mining

Ark., Yellville—Dirst Murch Co., John C. Dirst, Rush Route, has begun development of 60 acres. (Lately noted to have leased the Mattie May mine.)

Mo., Joplin—Clark Concentrating Co. (lately noted incorporated, capital \$25,000), organized with A. D. Hatten, Pres.; B. B. Clark, Sec.-Treas.; R. M. Clark, Mgr.; are operating mill at both Joplin and Cardin, Okla.; daily output 1000 tons chatts.

Mo., Neesho—The Kathryn Mining Co., incorporated by Charles W. Bugbee, Richard E. Urquhart and others.

Tex., Waco—Texas Calcium Arsenate & Lime Co., Amicable Bldg., capital \$600,000, incorporated with S. C. Williams, Pres., of Bryan, Tex.; W. V. Hanover, Treas., of McGregor, Tex.; will take over holdings of the Waco Lime Products Co.; will install plant having daily capacity of 100 tons lime and 40 tons calcium arsenate.

Virginia—Iron—Low Moor Iron Co. of Low Moor, Va., reported to have leased 9000 acres of land from the Ritch Patch Land Co., Ind., including all mines, mine equipment and over 3 mi. spur track with the privilege of purchase; will develop.

Miscellaneous Construction

Fla., Daytona Beach—Incinerator—Details under Road and Street Construction.

Fla., Ft. Lauderdale—Waterway—W. C. Kyle and associates are interested in the construction of deeper waterway into the Everglades.

La., New Orleans—Retaining Wall—Brogan Brothers, 816 Howard Ave., have contract for the construction of concrete retaining wall, cost \$10,511.15; John Klorer, Engr., Room 21, City Hall.

Mo., Glasgow—Bank Protection—Missouri State Highway Dept., Capitol Bldg., Jefferson City, Mo., will receive bids until Feb. 21 for Missouri River bank protection in connection with Missouri River bridge, Federal Aid Project No. 217, Howard and Saline Counties; work consists of series of current retards of following lengths, two 100 ft., eight 150 ft. and eight 200 ft.; B. H. Piepmeier, Ch. Engr.

Tex., San Antonio—Swimming Pool—See Land Developments.

Tex., Taylor—Swimming Pool—City, G. D. Patterson, Mayor, let contract to J. S. Knappe, Austin, to construct swimming pool; concrete; 75x150 ft.; work also including dressing rooms, etc.; Giescke & Harris, Archts., Littlefield Building, Austin, Tex. (Lately noted.)

Miscellaneous Enterprises

Ark., Gurden — Pittman-Powell Hardware Co., changed name from Pittman-Stephens Co., reorganized with H. E. Powell, Pres.; A. S. T. Ridsell, Sec.

Ark., De Queen—Forrest Wilson of Nashville will install carbonated beverage bottling works in building at 123 De Queen Ave.; plant will have a capacity of 400 cases per day; will install Miller Hydro bottle washing and sterilizing machine, etc.; equipment purchased.

Fla., Daytona—Daytona Building Co., incorporated with R. L. Selden, Pres.; Lee David Ross, Sec.

Fla., Fellsmere—Geo. F. Maddox is considering establishment of poultry farm.

Fla., Orlando—Church Street Holding Co.,

capital \$1,000,000, incorporated with R. L. Hyer, Pres.; A. M. Crittenton, Sec.-Treas.

Ga., Augusta—H. H. Bell & Co., capital \$25,000, incorporated by H. H. Bell, Walter G. Fargo and others.

Ga., Augusta—Purity Ice Cream Co., capital \$30,000, incorporated by J. F. Ellis, B. F. Hartman, and others.

Ga., Augusta—T. A. Ausley Co., Inc., capital \$25,000, incorporated by T. A. Ausley, N. J. Boatwright and others.

Ga., Columbus—Woodruff Co., capital \$100,000, incorporated by James W. Woodruff, Geo. C. Woodruff and others.

Ga., Macon—Fire Equipment—Details under Road and Street Construction.

Ga., Macon—Robert H. Sissons & Co., capital \$5000, incorporated by Robert H. Sissons, Robert T. Sissons and C. P. Netherton.

D. C., Washington—Benson & Cooley Advertising Co., capital \$20,000, incorporated by W. C. Benson, E. C. Cooley and others.

D. C., Washington—Fairmont Radio Studio, Inc., capital \$10,000, chartered by Robt. A. by W. C. Benson, E. H. Cooley and others.

Ga., Savannah—Oglethorpe Casket Co., capital \$100,000, incorporated by W. C. Watkins, Frederick Shortmeier and others.

Ga., Waycross—W. D. O'Quinn Clothing Co., capital \$15,000, incorporated by W. D. O'Quinn, and W. D. Rivenbark and others.

Ky., Ashland—Ashland Laundry Co., capital \$50,000, incorporated by J. F. Briscoe, A. P. Liebig and others.

Ky., Burlington—Boone County Electric Service Co., capital \$15,000, incorporated by D. C. Ketcham, J. H. Tipton and others.

Ky., Harboursville—The Honey-Mint Co. (lately noted incorporated, capital \$10,000), organized with W. C. Black, Pres.; W. H. Mitchell, Sec.; will erect 27x75-ft., 2-story building, construction by owner; will manufacture 50 medicinal preparations.

Ky., Danville—Boyle County Stock Yard Co., incorporated by J. T. Ware, C. R. Mastin and Logan Caldwell.

Ky., Henderson—Henderson Plumbing Co., Inc., 5 South Main St., organized with A. G. Norcutt, Pres.; J. J. Spidel, V.-P. and Mgr., has building and machinery installed. (Lately noted incorporated, capital \$25,000.)

Ky., Lancaster—Garrard Water & Ice Co., incorporated by J. A. Beazley, J. C. Williams and others.

Ky., Lexington—Cushion Grip Brake Co. incorporated by C. E. Baker, Sherley Lyon and F. A. Forsythe.

Ky., Lexington—Hughes & Co. increased capital from \$15,000 to \$50,000.

Ky., Paducah—Lockwood Paint and Glass Co., incorporated by J. W. Lockwood, Tuttle Lockwood and Charles Amedley.

Ky., Shively—Fernlea Dairy, incorporated by B. H. Farnsley, Geo. J. Kalme and others.

La., New Orleans—P. J. Horn Co., Inc., increased capital from \$175,000 to \$350,000.

La., New Orleans—Alfred J. Amer & Co., Ltd., increased capital from \$300,000 to \$500,000.

La., Shreveport—Glassell-Wilson Co., capital \$24,000, incorporated with Ashton Glassell, Pres.; John Glassell, Jr., Sec.-Treas.

La., Shreveport—The Fulton Co., W. N. Fulton, President, will erect addition to plant on Kingston Pike; two-story; 144x80 ft.; reinforced concrete and steel; cost approximately \$50,000; company manufactures temperature regulating devices and valves.

La., New Orleans—Gillican-Chipley Co., W. B. Gillican, Pres., has absorbed the following companies in New Orleans, Betts Naval

Stores Co., operating in Florida; Southwestern Land & Turpentine Co., operating in Mississippi, and the New Orleans Naval Stores Co.; also absorbs by outright ownership half of the Florida Industrial Co. which owns approximately 1,150,000 acres standing yellow pine timber in South Florida.

La., Shreveport—Pancake Creamery increased capital from \$10,000 to \$25,000; changed name from Hillside Farm Dairy Products Co., Inc.; plan development; has plant with capacity of 10,000 pounds of butter daily.

Md., Baltimore—Asphalt Grave Vault Co., 709 Calvert St., capital \$250,000, incorporated by Wm. R. Shafer, W. A. Wingfield and others.

Md., Cumberland—The Roman Steel Tennis Net Co., J. Phillip Roman, Pres., has leased building on Frederick St. and equipment installed for the manufacture of steel tennis nets. (See Machinery Wanted—Iron Tennis Reels.)

Md., Baltimore—Francis C. Dorsey, Inc., 110 Prospect Ave., Roland Park, capital \$100,000, incorporated by Francis C. Dorsey, John W. Clark and others.

Md., Baltimore—Moore & Co., Inc., 109 S. St., capital \$50,000, incorporated by Geo. B. Moore, Raymond L. Moore and others.

Miss., Biloxi—Checker Taxi Cab Co., capital \$10,000, incorporated by F. P. Martin, Ernest Wauskaw and others.

Miss., Laurel—Bertran Hoe Works, capital \$10,000, incorporated by D. W. Bertran, John Anderson and others.

Miss., Hattiesburg—Hattiesburg Coffee Co., capital \$10,000, incorporated by J. P. Smith, O. G. Pace and others.

Miss., Laurel—McRae Bakery, incorporated by David F. and D. B. McRae and others.

Mo., Jefferson City—Jones & Dawson Funeral Directors, capital \$15,000, incorporated by F. E. Jones, S. A. Dawson and others.

Mo., Cape Girardeau—J. F. Lawler, Independence St., interested in establishing plant for the manufacture of spring-water soda.

Mo., Carthage—The Ozark Hatchery, incorporated by Frank M. Clayton, J. C. Wyatt and others.

Mo., Kansas City—Regal Products Co., incorporated by Harry L. Dunnett, Reynolds Barnum and others.

Mo., Kansas City—Faultless Laundry Co., 1401 Woodlawn Ave., capital \$100,000, incorporated by S. S. Spence, C. B. Cook and others.

Mo., Kansas City—Rogers-Nuss Burner Co., incorporated by H. W. Rogers, W. F. Wilkinson and Jessie R. Wilkinson.

Mo., Kansas City—Standard Radio Co., incorporated by Max H. Schwarz, H. J. Salzw, M. Rosenberg and others.

Mo., Kansas City—Joe Timmer Hardware Corporation, chartered by C. J. Sihler, W. W. Goodman, C. A. Vancil and others.

Mo., Kansas City—W-D Electric Co., incorporated by James K. Walker, James H. Daley and Clara Baker.

Mo., St. Joseph—H. O. Sidenfaden let contract to P. P. Buddy Building and Construction Co., to erect Sidenfaden Mortuary; cost \$80,000; Walter Boschen and Everett Jone, architects.

Mo., Mountain View—E. M. Thompson of West Plains, Mo., interested in erection of tomato canning plant.

Mo., St. Louis—Annals Publishing Co., capital \$10,000, incorporated by H. B. Loeb, J. B. Cohn and others.

Mo., St. Louis—Burford Bohlinger Paper

Box Co., capital \$25,000, incorporated by Alfred P. Bohlinger, Jr., St. Louis; Wesley C. Buford, Webster Grove, Mo., and others.

Mo., St. Louis—Burton Building & Investment Co., incorporated by J. A. Keister, Thos. H. Cobbs and others.

Mo., St. Louis—Champion Soda Water Co., incorporated by J. L. Durphy, L. J. Leidel and others.

Mo., St. Louis—Exhibitors Sign & Poster Co., incorporated by R. L. Butler, 3455 A S. Grand St., Fred Wehrenberg, and others.

Mo., St. Louis—Grand-Victor Drug Co., capital \$18,000, incorporated by E. W. Huebskoetter, M. Lippman and others.

Mo., St. Louis—Guarantee Security Co., incorporated by Emil Probe, G. Waldman and Israel Schachter.

Mo., St. Louis—Klein Heating Co., incorporated by Walter A. Klein, H. L. Trafton and others.

Mo., St. Louis—McAuley Printing Co., capital \$20,000, incorporated by A. Juengst, J. W. Sinder and others.

Mo., St. Louis—National Products Co., incorporated by M. E. Dever, D. H. Nokes, 2609 Valley Ave., Maplewood, and others.

Mo., St. Louis—Seneck Shoe Co., increased capital from \$100,000 to \$200,000.

Mo., St. Louis—Schwartz Material Supply Co., 7108 Southwest Ave., capital \$50,000, incorporated by Edw. H. Schwartz, J. R. McDonough and others.

Mo., St. Louis—The Bright & Free Laundry, capital \$30,000, incorporated by E. F. Bright, E. S. Free and others.

Mo., St. Louis—United Clock & Manufacturing Co., incorporated by S. D. Kretzer, P. Moeller and others.

Mo., St. Louis—Wells Publishing Co., incorporated by C. H. Kollmeyer, B. M. Wells and others.

Mo., St. Louis—William Saifer Son Shoe Co., capital \$15,000, incorporated by Samuel L. Bierman, 4333 A Linton St., Hyman Saifer and others.

Mo., Warrensburg—Premier Hatchery Co., incorporated by Jos. H. Chamber, Thos. S. Townsley and others.

N. C., Asheville—Asheville Baking Co., increased capital from \$30,000 to \$125,000.

N. C., Asheville—Red Top Cab Co., capital \$50,000, incorporated by J. D. Bridgers, C. S. Alley and others.

N. C., Albemarle—Yadkin Construction Co., Inc., lately noted incorporated with \$50,000 capital, organized with J. M. Boyett, Pres.; Lee M. Boyett, Sec. (See Machinery Wanted—Builders and Contractors' Equipment).

N. C., Charlotte—Y. & B. Corporation, Y. A. Yarbrough, Pres. is receiving bids for construction of 50 x 100 ft. mill construction building for ice cream plant with daily capacity 2000 gals. ice cream; cost of building \$25,000; will install \$50,000 ice making and ice cream machinery. Lately noted. (See Machinery Wanted—Ice Cream Machinery.)

N. C., Durham—Liggett & Myers Tobacco Co., will erect 3 additional stories on Cobb Bldg. on Main St.; cost about \$300,000; building will be used for stemmery.

N. C., Lenoir—Sentinel Publishing Co., Inc., (lately noted incorporated capital \$25,000) organized with Geo. W. Holloway, Pres.; Annie E. Holloway, Sec.-Treas.; has building and will install job presses and other job equipment, bids opened. (See Machinery Wanted—Job Printing Equipment.)

N. C., Fayetteville—Derby & Burns, Inc., capital \$50,000, chartered by E. C. Derby, Robert O. Burns and others.

N. C., Siler City—V. B. Elkins Chemical

Co., capital \$50,000, incorporated by V. B. Elkins, J. Wade Siler and others.

N. C., Hickory—Hickory House Furnishing Co., capital \$25,000, incorporated by R. J. Mackorell, A. A. Whitener and others.

N. C., Walstonburg—Walstonburg Drug Co., incorporated by W. A. Marlowe, M. B. Matthews and others.

N. C., Winston Salem—Modern Homes Co., capital \$50,000, incorporated by W. E. Burke, E. V. Ferrell and others.

Okla., Muskogee—Muskogee Bread Co., L. A. Branhill, Supt., has building and will install bread making machinery.

Okla., Okmulgee—A. W. Francis Co., capital \$10,000, incorporated by A. W. Francis, Okmulgee; A. P. Brown, Muskogee, and others.

Okla., Ponca City—Ponca City News has had plans completed by C. H. Woodruff, Ponca City, for building; 2 stories and basement; cost \$40,000; will open bids Feb. 12.

Okla., Poteau—Sun Publishing Co., capital \$15,000, incorporated by C. H. Cowles, J. E. Edelman and others.

Okla., Wewoka—Grady Webster, publisher of Wewoka Democrat has acquired Konawa Chief Leader of Konawa, and will publish paper under name of Konawa Enterprise.

S. C., Beaufort—Beaufort Gazette will rebuild burned plant.

Tenn., Chattanooga—Optezean Co., capital \$100,000, incorporated by Righter A. Gogsall, Henry A. Blackwell, Ethel Goodloe and others.

Tenn., Chattanooga—Tennessee Paper Mills is expending \$75,000 in installation of steam power plant; will increase capacity of plant from fifty to sixty tons of paper box material daily.

Tenn., Greenville—Green County Auditorium, capital \$75,000, incorporated by J. Silas Bernard, N. B. Tweed and others.

Tenn., Knoxville—George B. Chambliss Co., capital \$10,000, incorporated by Geo. E. Chambliss, D. Wise Smith and others.

Tenn., Knoxville—Appalachian Construction Co., capital \$25,000, incorporated by A. J. Wardret, E. H. Hegall and others.

Tenn., Memphis—Christie Cut Stone Co., 2082 Elzey Ave. (lately noted, incorporated, capital \$60,000) organized with Alex. Christie, Pres.; L. C. Stephen, Sec.-Treas.; I. P. Phelps, Mgr. let contract to W. T. Hudson, Memphis, to 60 x 96-ft. steel skeleton building; also let contract to Bedford Foundry & Machine Co., Bedford, Ind. for derricks, gang saws, turning lathes, etc.; L. C. Stephens, Const. Engr.

Tenn., Memphis—Consolidated Molasses Storage Co., capital \$10,000, incorporated by J. T. Morgan, J. B. Edgar and others.

Tenn., Memphis—Grey Eagle Brothers, capital \$10,000, incorporated by M. V. Lynk, F. H. Johnson and others.

Tenn., Memphis—Schneider's Modern Bakery, Inc., 262 Vance St., capital \$10,000, incorporated by Joe Schneider, Abe Lewis and others.

Tex., Ennis—S. C. Williams of Palmer, Tex., is organizing company to erect plant for the manufacture of calcium arsenate. (Lately incorrectly noted.)

Tenn., Dickson—Dickson Raincoat Co., Inc., lately noted incorporated with \$100,000 capital, organized with W. P. Bayte, Pres.; E. L. Rice, Mgr.; has plant for manufacture of oiled clothing, daily out put 600 garments. (See Machinery Wanted—Boiler.)

Tenn., Knoxville—Burton Coffee Co., capital \$50,000, incorporated by D. E. Burton, W. F. Robertson and others.

Tenn., Memphis—American Pharmacal Co., capital \$50,000, incorporated by C. M. Clay, N. L. Woodward and others.

Tenn., Pulaski—American Tobacco Co. let contract to J. M. Gladish, Pulaski, to erect three-story 60x130 ft. cigar plant; Jos. D. Weiss, Archt., New York City. Lately noted. (See Machinery Wanted—Lumber.)

Tex., Abilene—Abilene Printing & Stationery Co., lately noted incorporated with \$40,000 capital, has printing plant and will install press for printing roll wrapping paper.

Tex., Dallas—Brown & Montgomery increased capital from \$2500 to \$15,000.

Tex., Dallas—Hill-Mynatt Co., capital \$15,000, incorporated by J. R. Hill, R. C. Mynatt and others.

Tex., Eastland—Hoffman Construction Co., capital \$125,000, incorporated by G. A. Davison, G. F. Hoffman and others.

Tex., El Paso—El Paso Baking Co., capital \$10,000, incorporated by W. H. Korn, E. C. Wade, Jr., and others.

Tex., Fort Worth—Nortex Hide and Produce Co., increased capital from \$60,000 to \$100,000.

Tex., Houston—Logan Candy Co. increased capital from \$30,000 to \$50,000.

Tex., Houston—Rosemount Homebuilding Co., incorporated by A. E. Olson, John Olson and others.

Tex., Lubbock—Stephens-McKee-Bacon Co., increased capital from \$40,000 to \$50,000.

Tex., Mount Pleasant—Lillienstein Manufacturing Co., capital \$20,000, incorporated by O. Lillienstein, D. M. Cook, E. E. Lillienstein and others.

Tex., San Antonio—Tower Varnish & Dryer Co., incorporated by R. V. W. Negley, W. P. Napier and others.

Tex., Waxahachie—Tribune Publishing Co., increased capital from \$8000 to \$16,000.

Va., Coeburn—Coeburn Chero-Cola Bottling Co., capital \$25,000, incorporated with S. P. Hartsook, Pres.; G. L. Horne, Sec. both Tacoma, Va.

Va., Danville—Liggett-Myers Co., Julian C. Jordan, Mgr., will increase storage space at plant on Craghead St.; capacity of 5000 hogshead.

Va., Emporia—Fox & Moss, capital \$15,000, incorporated with H. T. Fox, Pres.; R. L. Moss, Sec.

Va., Norfolk—Godwin Building Corp., capital \$10,000, incorporated with R. D. Godwin, Pres.; O. H. Gay, Sec.

Va., Standardsville—Greene County Creamery, Inc., (lately noted incorporated with \$25,000 capital); G. B. Parrott, Pres.; will erect building 32 x 44 ft.; ordinary construction for creamery; will open building proposals about May 1; will install butter making machinery, cost \$4000, bids for machinery opened. (See Machinery Wanted—Boilers; Engine; Scales; Pump; Pipe Valves and Fittings.)

Va., Suffolk—Producers Peanut Co., capital \$25,000, incorporated with S. S. Kennedy, Pres.; L. B. Callis, Sec.

W. Va., Huntington—Rex Casto Co., capital \$10,000, incorporated by Rex Casto, Augustine Casto, M. M. Tyree and others.

Motor Cars, Garages, Tires, Etc.

Ala., Attalla—Clarence F. Jones of Attalla Electrical Supply Co. let contract to W. B. Goza to erect brick garage building, 50x100 ft.

Ala., Birmingham—Filling Station—Claude Wilson will erect filling station at 1st. Ave. and 57th. St.

Ala., Birmingham—Filling Station—Smallman Brice Construction Co., Inc., 1109 Ave. E has contract to erect semi-fireproof filling station; Warren Knight & Davis, Archts. (Lately noted.)

Ark., Camden—Riley & Hawthorne let contract to Gene Powell to erect brick garage and filling station.

D. C., Washington—Wingender Garage Co., Inc., will erect 4 story garage building at 1437 Irving St., N. W.; construction work under supervision of Allen E. Walker Investment Co.

D. C., Washington—Penn Oil Co. let contract to W. B. Avey to construct 3 gasoline filling stations at Sherman Ave., Harvard St. Florida Ave and Champlain St. and Seventh St. and Maryland Ave., S. W.; each station will be 24x40 ft.; 1 story and cellar; all pumps located under covered driveway; 2 crank case draining pits will be built at each station; light tapestry brick with stone trimmings and red tile roof; plans by Julius Wenig.

Ky., Lackey—Robertson & McHone Co., capital \$25,000, incorporated with Branch Robertson, Pres.; J. F. McHone, Sec. Treas.; will erect frame and steel structure for automobile accessory plant. (See Machinery Wanted Structural Steel—Automobile Accessories.)

Ky., Middlesboro—Pinnacle Motor Co., increased capital from \$50,000 to \$100,000; changed name from F. P. Scales, Inc.

Ky., Newport—J. Henry Schlahe Auto Supply Co., Inc., 11th & Columbia Sts., J. Henry Schlahe, Pres., will erect fireproof building; 30x40 ft.; one story for garage; Wm. T. Schlahe, contractor and architect, Ft. Thomas, Ky. Will install gasoline and oil pumps and all necessary equipment for auto accessory dealers. (See Machinery Wanted—Auto and Accessory Shop Equipment).

Md., Baltimore—Eastwick Motor Co., 120 W. North Ave., let contract to Consolidated Engineering Co., Baltimore, to erect 2-story, 150x165 ft. brick, garage building at Remington Ave. and 20th St. (Lately noted.)

Mo., Bethany—Filling Station—S. A. Evans, local Representative of the Barnsdale Refining Co., will erect filling station, has leased site corner 14th and Main Sts.

Mo., Kansas City—Stewart Accessory Corporation, capital \$25,000, incorporated by Austin E. Stewart, R. H. James 1914 Grand Ave., and others.

Miss., Lumberton—Martin-Farry Corp., capital \$50,000, incorporated by Frederick M. Small, Vincent C. Keese, both York, Pa., and others; will manufacture auto bodies.

Mo., Bell City—Bell City Garage & Development Co., incorporated by J. A. Schoen, J. C. Henderson and others.

Mo., Caruthersville—Berry Patmor Motor Co., capital \$25,000, incorporated by E. S. Berry, J. T. Patmor and others.

Mo., Kansas City—Cole Motor Sales Co., capital \$25,000, incorporated by C. H. Anderson, P. M. Morgan and others.

Mo., St. Louis—Century Auto Co., capital \$45,000, incorporated by J. C. McKim, C. A. Schmidt and others.

Mo., St. Louis—McNiece Motor Co., Inc., 5187 Delmar Blvd., chartered by E. J. Krause, Jr., I. G. McNiece and others.

Mo., St. Louis—Sol Abrahams & Son Construction Co., Chemical Bldg. has contract at \$160,000 to erect 2 story, 300 x 125-ft. concrete building, fireproof, construction at 9th. and Clark Aves.; to be occupied by the Down Town Garage Co., of St. Louis. (Lately noted.)

Mo., Poplar Bluff—Justrite Oil Co., will erect two 18 x 24-ft. warehouses, two drive-in filling stations, four storage tanks, two 12,000 and two 20,000 gal. capacity, to make two bulk stations complete; estimated cost \$20,000. (Lately noted.)

N. C., Charlotte—Barnes Auto Sales Co.,

capital \$100,000, incorporated by J. S. Barnes, Charlotte; E. F. Meister, Wilmington and others.

N. C., Charlotte—Gulf Refining Co. will erect 2 one story brick oil storage buildings on Liddell St.; cost \$10,000.

N. C., Shelby—Garage—J. F. Ledford will erect 2 story, 44 x 110-ft. garage and filling station on S. LaFayette St., estimated cost \$10,000.

N. C., Wilson—Blythe Motor Co., capital \$100,000, incorporated by C. D. Briggs of Wilson, F. J. Blythe of Charlotte.

Okla., Broken Arrow—Mays Motor Co., capital \$30,000, incorporated by M. W. Mays, A. M. Calloway and others.

Okla., Pine Creek—Schneider Motor Co., capital \$10,000, incorporated by Emanuel and Alexander Schneider and others.

Tex., Austin—J. O. Buas & Son, 502 Lavaca St., let contract to Brydson Bros. to erect 47x92-ft. service station, brick construction; Giesecke & Harris, Archts., Littlefield Bldg.

Tex., Marion—Blumberg Motor Co., lately noted incorporated with \$8000 capital, organized with Chas. F. Blumberg, Jr., Pres. and Mgr.; will erect garage 45x100 ft.; concrete; Raymond K. Blumberg, Seguin, Tex., architect; Paul Schriever, Seguin, Tex., contractor.

Tex., Martindale—Martindale Motor Corp. let contract to W. A. Velten, Lockhart, Tex., at \$23,500, to erect 2-story, 70x80-ft. building, brick and tile construction, metal roof, cement and wood flooring, concrete foundation, metal ceilings; let contract to Smith Electrical Co., San Marcos, Tex., for electric lights; to Robert Leyendecker, Lockhart, for plumbing.

Tex., Plainview—Tex-Numex Auto Supply Co. let contract for brick work to Connor Van Hoy for a 25 x 80-ft. brick and hollow tile building on 7th St.; work to begin immediately; contract for carpentry work to be let.

Tex., San Antonio—A. B. C. Auto Livery Co., capital \$10,000, incorporated by A. B. Phelps, O. T. Pullen and others.

Va., Danville—Henry Arnstein Co., capital \$150,000, incorporated with H. Arnstein, Pres., Danville; C. H. Harris, V.-P., Detroit, Mich.; C. L. Graves, Sec.-Treas., New York; plans erecting 4-story 90x165-ft. garage building on Spring St., estimated cost \$100,000; having storage space for about 300 automobiles.

W. Va., Charleston—Tourists Garage Co., Box 330 (lately noted incorporated capital \$100,000) organized with F. W. Johnson, Pres.-Treas.; A. B. Baines, Sec.; will erect 2 story, 85 x 225-ft. fireproof building, estimated cost \$70,000; bids opened; Knapp & Haviland, Archt. and Const. Engr., Charleston.

W. Va., Fairmont—The Hotel Garage, Dr. R. A. Stehley, 330 Main St., let contract to John Banks, Fairmont, to erect 70x82½-ft., steel and concrete fireproof building; J. Perry Thompson, Archt.; J. E. Moss Iron Works, Wheeling, W. Va., Construction Engr. (Lately noted.)

W. Va., Philippi—Home Auto Co., capital \$10,000, incorporated by R. W. Johnson, N. S. Parker and others.

W. Va., Wheeling—Glen Park Motor Co., capital \$50,000, incorporated by Glenn F. Knight, David Park and others.

Railways

Okla., Forgan—Beaver, Meade & Englewood Railroad Co., has, it is reported, been authorized by the Interstate Commerce Commission to build its projected extension from Forgan

to Hooker, Okla., about 40 mi. Jacob Achenbach, of Hardtner, Kans., is president.

Tex., Dallas—Southern Pacific Lines, it is reported, will build an extension from the union station to Metzger, Tex., 9 mi. H. M. Lull, Houston, Tex., is Ch. Engr.

Road and Street Construction

Alabama—State Highway Comm., Montgomery, plans completing Montgomery-Birmingham Highway, and continuing this highway through Jefferson County to Muscle Shoals.

Ala., Troy—City will receive bids soon to pave Three Notch, Montgomery, Orion, Orange, Fairview, Elm and Brundidge Sts. Address City Engr.

Ala., Florence—City plans paving 5 mi. streets. Address The Mayor.

Ala., Gadsden—Etowah County plans graveling Hokes Bluff road from County almshouse to Cherokee County line; also to build concrete bridge at Cove Creek at Noojin farm. Address County Commrs.

Ala., Huntsville—Lincoln Cotton Mills interested in building hard surfaced road from city limits through Lincoln Village and beyond.

Ala., Moulton—State Highway Comm., Montgomery, will receive bids until March 1 for 2 sections of roads as follows: Grade, construct drainage structures, and lay bituminous macadam surface on 5.399 mi. from Morgan County line to Moulton; Sec. C, 6.87 mi.; Lawrence County Federal Aid Project 119; estimated cost \$127,200; W. S. Keller, State Highway Engr. (Lately noted.)

Ala., Alabama City—City plans grading and paving with asphalt 4th St. from Canterbury Station to Forest Ave. Address The Mayor.

Ark., Arkadelphia—Chamber of Commerce interested in paving business streets.

Ark., Ashdown—Little River County plans building 3 lateral roads, totaling 5 mi. to Highway No. 6; estimated cost \$25,000; A. D. Dulaney, Dist. Attorney.

Ark., Blytheville—City let contract to Rouse Construction Co., Cape Girardeau, Mo., at \$409,000 for about 10 mi. street paving.

Ark., Mammoth Springs—Oliver Construction Co., Little Rock, Ark., was awarded contract at \$100,000 for 17 mi. Sec. C, Mammoth Springs-Batesville road, from Salem south.

Ark., Mountain Home—Chamber of Commerce interested in building road from Mountain Home to Cotter dam site, 6 mi. above Cotter, on White River.

Ark., Pine Bluff—Philpot Construction Co., Pine Bluff, was awarded contract at \$112,000 to pave 2 mi. with 2 short laterals, in Jefferson County, Dist. No. 1, from 24th Ave. and Cherry St. to Country Club; concrete.

Ark., Pine Bluff—City plans having 38 blocks in west side, between Baraque and 6th Sts., including Olive, Laurel, Beech, Oak, Elm, Poplar and Cherry. Address The Mayor.

Ark., Rogers—City plans paving several streets; A. M. Ratcliff, City Engr., Fayetteville, Ark.

D. C., Washington—Dist. Commrs., will receive bids until Feb. 28 to resurface and renew various streets, roads and avenues, with sheet asphalt; plans, etc., on file.

Fla., Bartow—Polk County cancelled \$3,600,000 bond election; W. S. Wev., Sec. (Lately noted to vote Feb. 26).

Fla., Bradentown—City let contract to N. J. Trudell, at 19 cents per sq. ft. to excavate, grade, and lay cement sidewalks on Ohio, Richland and Maryland Aves. Address The Mayor.

Fla., Bushnell—Sumter County postponed \$650,000 bond election; plans voting latter part of February; Clarence Woods, Sec. Sumter County Chamber of Commerce. (Lately noted to Vote Jan. 30.)

Fla., Daytona Beach—City plans street paving, building incinerator, extending water works, etc.; contemplates voting on \$165,000 bonds; Frank Pope, City Attorney.

Fla., Fulford—Parrine Properties, Lorraine Arcade, let contract to H. L. Clark & Sons, for street building in Sunny Heights subdivision.

Fla., Jacksonville—Walter J. Bryson, Jacksonville, was let sub-contract to clear, grub and grade Atlantic Blvd.

Fla., Labelle—Town plans paving and drainage, laying water mains, and sewer construction; will vote March 4 on \$25,000 bonds; J. R. Doty, Clk.

Fla., Pensacola—State Highway Dept., Tallahassee, let contract to Lawrence Construction Co., Thiesen Bldg., Pensacola, to complete 6 mi. 18-ft. concrete road, 6-in. 8-in. 6-in. from Pensacola to Roberts; John R. Shade, Res. Engr.

Fla., Sebring—State Highway Dept., Tallahassee will let contract soon to complete 2 sections of roads in Highlands County as follows: Josephine Creek and Lake Annie, on State Road No. 8.

Fla., Winterhaven—Details under Land Developments.

Georgia—State Highway Dept., Atlanta, let contracts for 4 road projects as follows: Columbia County, 6.148 mi. sand-clay road, and 3 creosoted timber bridges on Appling-Lincolnton road, to Oglesby & Starke, Elberton, at \$37,377; Stephens-Habersham Counties, 1.414 mi. clay gravel on Toccoa-Cornelia road, to Burgess & Mozeley, Toccoa, at \$17,275; Lumpkin County, 3 mi. waterbound macadam on Dahlonga-Dawson road, to T. P. Wright, Atlanta, at \$20,900; Lowndes County, 10.537 mi. gravel road and bridge on Valdosta-Adel road, to J. L. Wallace, Norman Park, at \$159,580.

Ga., Forsyth—City plans paving streets in business section and sidewalks extending to certain sections of residential districts; will vote March 10 on \$75,000 bonds. Address The Mayor.

Ga., Macon—City plans voting April 14 on \$600,000 bonds for following improvements: Pave streets and repair defective pavements, \$100,000; build bridge across Ocmulgee River, \$150,000; build or extend surface, or storm and sanitary sewers, \$225,000; build fire engine house, and purchase and repair fire equipment, \$25,000; build athletic stadium, \$100,000; Luther Williams, Mayor. (Lately noted.)

Ky., Hickman—Fulton County plans building hard surfaced roads and bridges in County; voted \$450,000 bonds. Address County Commrs.

Ky., Owensboro—City plans laying or repairing 4 mi. streets, including Locust from 2nd to 9th; 3rd from Davies to Litchfield; 2nd from Lewis to Triplett; Lewis from 5th to 7th; W. 2nd from Woodlawn Ave. to Haning Lane; Frederick from 16th to 18th; 12th and 13th from Frederica to Davies; Triplett from 16th to 18th; Walnut from 4th to 11th; Address Commr. Harry Cline.

La., Baton Rouge—City let contract for paving 15 streets as follows: To Southern Roads Co., Dufroc St. from Main to Government, at \$24,348.09; Elam from Boyd to North, at \$5323.02; East Blvd., from Government to Reddy, at \$40,590.02; 5th from Convention to North, at \$9356.03; Florida from Church to Dufroc, at \$52,362.42; Laurel

from Church to Dufroc, at \$57,512.66; St. Anthony from Convention to North, at \$9-358.90; St. Ferdinand St. from Louisiana Ave. to S. Boulevard, at \$13,074.19; St. Hypolite from North to Main, at \$2382.86; St. Joseph, from Convention to North Boulevard, at \$2,365.64; University Walk, from College Ave. to St. Mary St., at \$4,491.77; all Warrenite bitulithic; to Valieant & Tqomey, Inc., Bonneze St., from North Boulevard to Government, at \$16,780.40; Convention from 15th to Dufroc, at \$16,650.00; North Boulevard from Bonneze to City limits at \$31,248.45; all brick. Address The Mayor.

La., Baton Rouge—East Baton Rouge Parish, 10th Ward, plans graveling 4 roads as follows: 9 mi. Greensburg Highway from Comite River to Tom Morgan's place, to ward line near Indian Mound; 2 mi. Hooper road from Strickland Bridge to intersection of Greensburg Highway; 4 mi. Hooper and Greenwell Springs roads, near Greenwell Springs; 2½ mi. Black Water road from Hooper's Store to Brown Bridge; voted \$25,000 bonds. Address Police Jury.

La., Haynesville—Buchanan & Beene, Haynesville, were awarded contract to grade and level school grounds; Chas. D. Evans, Landscape Engr.

La., Haynesville—City will receive bids soon to pave 5 additional blocks including Second East St. from Main to new school buildings, and First West St. from Main to First Methodist Church. Address The Mayor.

La., Houma—City receives bids until Feb. 13 to pave sidewalks and lay curb on 6 streets as follows: Park Ave., Court, School, Verret, Church and Barrow Sts.; 4 ft. wide cement sidewalks, exclusive of curbs. Ernest D. Dupont, Mayor.

La., Jonesboro—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, plans building 50 mi. A1 gravel road in Jackson Parish.

La., Many—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will receive bids until March 6 for 11,336 mi. gravel road in Sabine Parish, connecting Many with Jefferson Highway at Belmont.

La., New Orleans—Details under Land Developments.

Md., Baltimore — Public Improvement Comm., approved \$89,953 for street paving, including \$31,395 to pave Highgate Road and Parkington Ave.; \$6655 for Montebello and Ivy Aves., Citizens' Investment Co., Morris Bldg., paying half; also \$11,615 for Gibbons Ave., from Harford road to point 175 ft. west of Oakland Ave.; \$4400 for Overland Ave. from near Arabian Ave. to Walther Ave. and Arabian Ave. from Overland to Montebello Aves. \$4703 for Thorndale Ave. from Old Pimlico road eastward; Stuart Purcell, Ch. Engr. Dept.

Md., Baltimore—State Roads Comm., 601 Garrett Bldg., plans completing 31½ mi. Crain Highway, in Southern Maryland; estimated cost \$1,250,000.

Md., Frostburg — City plans street improvement; voted \$25,000 bonds. Address The Mayor.

Md., Towson—Baltimore County Commrs., receive bids until Feb. 14 to improve 2 roads as follows: 1½ mi. Graystone road, from end of concrete east 7th Dist.; 2 mi. Middletown road from end of concrete north, 6th and 7th Dists.; plans, etc., from Samuel A. Green, Roads Engr.

Miss., Bay St. Louis—State Highway Dept., Jackson, Miss., will receive bids until Feb. 26 for 11,931 mi. gravel road in Hancock County, forming part of State trunk road from Bay St. Louis to Pearl River.

Missouri—State Highway Dept., Jefferson

City, Mo., will receive bids until Feb. 21 for constructing or improving 22 roads as follows: Atchison County, 4.002 mi. 9 ft. concrete Tarkio-Fairfax road, 21,135 sq. yd. concrete; alternate on gravel, stone base; Mercer County, 4.185 mi. 9-ft. concrete from Princeton south, 23,123 sq. yd. concrete; alter gravel, stone base; Grundy County, 1.917 mi. 30-ft. graded earth from Edinburg west; Putnam County, 4.983 mi. 16-ft. graded earth from Unionville south; Schuyler County, 4.295 mi. 30-ft. graded earth from Queen City north; Randolph County, .964 mi. 30-ft. graded earth from Moberly east; Marion County, .845 mi. 18-ft. concrete from Hannibal north, 8931 sq. yd.; Monroe County, 2 sections; 3.314 mi. 16-ft. gravel road from Paris north, 31,111 sq. yd. gravel; 2.09 mi. 16-ft. gravel from Paris north, 19,668 sq. yd. gravel;

Howard County, 3 sections; 3.420 mi. 34-ft. graded earth from Booneville east; 3.864 mi. 34-ft. graded earth from Booneville east; 3.798 mi. 34-ft. graded earth from Booneville east; Boone County, 2 sections; 4.339 mi. 34-ft. graded earth from Columbia west; Callaway County, 5 mi. 18-ft. gravel from New Bloomfield south; Camden County, 2.286 mi. 24-ft. graded earth from Macks Creek south; Montgomery County, 3.84 mi. 16-ft. gravel from Montgomery City south; Osage County, 2 sections; 1.058 mi. 30-ft. graded earth from Loose Creek east; 2.147 mi. 16-ft. gravel from Useful P. O. east; Warren County, .95 mi. 12-ft. gravel from Warrenton south; Newton County, 3.37 mi. 16-ft. gravel from Neosho south; Wright County, 3.501 mi. 26-ft. graded earth from Mansfield west; plans, etc., on file and from Div. Engrs.

Mo., Cape Girardeau—City plans paving Harmony Ave. from Broadway to Boulevard, and Dunklin St. from North Henderson to Boulevard; J. B. Heagler, City Engr.

Mo., Columbia—City will let contract soon to pave Turner Ave. from Maryland Place to Providence Road, with rock asphalt, and Lowry St. from S. 9th to Hitt, with brick; Turner Ave. to be 24 ft. wide, and Lowry St. 40 ft. wide.

Mo., Morley—City plans graveling and repairing Kingshighway through Morley, and repairing all streets; voted \$10,000 bonds. Address The Mayor.

Mo., St. Louis—Board of Public Service, will receive bids until Feb. 19 to improve following streets: re-build Garrison Ave., from Cass Ave. to Montgomery St.; re-build Laclede Ave. from Leffingwell Ave. to Grand Blvd.; improve Meramec St. from 38th to Gravois Ave.; Kossuth Ave. from Prairie to Fair Aves.; Loughborough Ave., from Colorado to Field Aves.; plans, etc., from Pres. Board of Public Service, Room 300, City Hall.

Okla., Oklahoma City—City received low bid from Tibbets & Pleasants, at \$16,457, to lay concrete surfaces on Jordan Ave. from 7th St. to Park place.

Okla., McAlester—Pittsburg County Comms. let contract to Altman, Rodgers Construction Co., McAlester, for 2 sections of shale surfaced roads as follows: 6 mi. from Krebs, on McAlester-Quinlan road at \$39,500; 2 mi. gravel and asphalt on Hartshorne-Packford mountain road; County plans laying shale on all lateral roads, after plans, etc., of McAlester-Quinlan road.

Okla., Oklahoma City—Oklahoma County plans building 4 sections of roads as follows: 2½ mi. brick and asphalt high type paving from Edmond, east, approximate cost, with federal aid \$122,000; 2½ mi. fairgrounds to Lincoln Park on Eastern Ave.; approximate cost \$62,000; 1 mi. east of Choctaw, on

East 23rd St., approximate cost with federal aid \$30,000; 2 mi. east of Capitol Hill, on G Ave., approximate cost \$48,000; will receive bids until Feb. 16 for this road; Ralph S. James, County Engr.

S. C., Bishopville—Lee County Comms., will receive bids until Feb. 21, for 2.618 mi. sand-clay surfacing on State Highway No. 34, from city limits of Bishopville toward Darlington, and to end of Federal Aid Project No. 67-B; also for 3 bridges over Lynches River, 91,159 lbs. reinforcing steel; 150,000 lbs., structural steel; 1429 sq. yd. paving; 6110 cu. yd. sand-clay surfacing; Federal Aid Project No. 67-C; plans, etc., on file, and from Engr. of Northeastern Div., at Florence.

S. C., Charleston—Sanitary & Drainage Comm., will clear, grub, grade, construct drainage structures and lay cement clay gravel on 6.6 mi. road in Charleston County, from point near Meggetts to Adams Run; Jas. W. Martin, Engr. (Lately noted bids until Feb. 7).

S. C., Greenville—Details under Land Developments.

Tex., Alice—Jim Wells County will receive bids soon for 14.3 mi. State Highway No. 12, from 2000 ft. south of Nueces River to 10 mi. north of Alice; 20-ft. wide crushed rock and caliche base, with 1½-in. bituminous topping; estimated cost \$305,000; L. W. S. Mantel, County Engr.; R. R. Muller, County Judge.

Tex., Angleton—Brazoria County will receive bids soon for 7.76 mi. 16-ft. shell road on State Highway No. 19; estimated cost \$96,500; E. N. Gustafson, County Engr. J. T. Loggins, County Judge.

Tex., Archer City—Archer County, Road Dist. No. 2, plans road building; will vote Feb. 23 on \$300,000 bonds; E. M. Hooper County Judge.

Tex., Ballinger—City plans extensive street improvements. Address The Mayor.

Tex., Benjamin—Knox County plans hard surfaced or paved road from Wichita Valley highways to connect with nearly completed and proposed paved roads in other counties, along Wichita Valley Ry.; contemplates voting on bonds. Address County Comms.

Tex., Canyon—City plans paving 5th Ave. from Square to highway. Address the Mayor.

Tex., Columbus—Colorado County plans 6.9 mi. 18-ft. concrete with 1-in. asphalt top road on Weimar-San Antonio road; estimated cost \$215,000; E. B. Mayes, County Judge; B. H. Faber, County Engr.

Tex., Columbus—Colorado County plans building 2 roads as follows: 19 mi. State Highway No. 2, from Columbus to Fayette County line; 6-in. concrete and 1-in. asphalt, 18-ft. wide; estimated cost \$600,000; 21.2 mi. State Highway No. 3 from East Bridge at Columbus to Wharton County line; 6-in. concrete, and 1-in. asphalt top, 18-ft. wide estimated cost \$650,000; B. H. Faber, County Engr.; E. B. May, County Judge.

Tex., Corpus Christi—Ch. Engr., Bureau of Public Roads Washington, D. C., approved plans for 11.71 mi. State Highway No. 12; surface with shell and gravel base and bituminous top, 18-ft. wide; cost \$219,838.42; Federal Aid \$99,363.72; Calvin E. Cock, County Engr.; H. R. Sutherland County Judge.

Tex., Dallas—City Comms. let contract to Fuller Construction Co., Dallas, to re-surface 2100 yd. Young St. from Union Station to Harwood St.; asphaltic, Willite process.

Tex., Decatur—Wise County plans 8.2 mi. 14-ft. crushed stone surface on State

Highway No. 39, from 4 mi. north of Bridgeport to Bridgeport and east to Sandy Creek; estimated cost \$110,558; H. R. Smith, County Engr.; S. M. Ward, County Judge.

Tex., Graham—Young County Comms., Road Dist. No. 1, plans hard surfacing road; will vote March 1 on \$650,000 bonds; W. H. Reeves, County Judge. (Lately noted.)

Tex., Houston—Harris County will receive bids until Feb. 25 to improve 3 roads as follows: Grade Genoa-Mykawa road; gravel Colliers Corner South Houston road; re-surface and repair Westheimer road; plans, etc., from County Engr.; H. L. Washburn, County Auditor.

Tex., Houston—City received low bid from Chas. K. Horton, Houston, at \$64,998, to pave with 2-in. rock asphalt Walter Ave. from Austin St. to Sam Houston Park; from A. M. Arnold, at \$4117.25, to gravel Live Oak St. from Prairie to Texas Aves., and Prairie Ave. from Live Oak to Belt Railroad; O. F. Holcombe, Mayor.

Tex., Jasper—Jasper County plans 5.3 mi. 16-ft. gravel road on State Highway No. 45 estimated cost \$54,000; C. P. Hunter, County Engr.; A. D. Hancock, County Judge.

Tex., Laredo—Webb County Comms. Court received low bid from S. F. McElwath, Corsicana, at \$260,000 to widen and lay 2½-in. bituminous topping on 4 sections of State Highway No. 2, totaling 38 mi. to La Salle County line; plans later receiving bids for 11 mi. bituminous topping on Zapata Highway to Zapata County line.

Tex., Lufkin—Angelina County will receive bids soon for 1.78 mi. 16-ft. gravel surface and 1½-in. bituminous top road on State Highway No. 37; approximate cost \$34,200; G. R. Abney, County Engr.; J. T. Maroney, County Judge.

Tex., Menard—Menard County plans road building on State Highway No. 23; Henry H. Batjer, County Engr., 233 Cedar St., Abilene, Tex.; J. W. Mathews, County Judge, Menard.

Tex., Palo Pinto—Palo Pinto County let contract to McClung Construction Co., Cleburne, at \$75,000, to grade, construct drainage structures and gravel 6½ mi. road from Mineral Wells north.

Tex., Palo Pinto—Palo Pinto County let contract to McClung Construction Co., Cleburne, at \$63,714.02, for 4.97 mi. State Highway No. 28; Federal Aid Project 414.

Tex., San Marcos—Hays County, Road Dist. No. 3 plans building, maintaining and operating macadamized, graveled or paved roads and turnpikes; will vote March 1 on \$27,000 bonds; J. R. Porter, County Judge.

Tex., Sanderson—Terrell County plans 12.5 mi. gravel surface road on State Highway No. 12, from Sanderson, east; estimated cost \$186,000; John Stovell, County Engr.; G. J. Henshaw, County Judge.

Tex., Uvalde—Uvalde County let contract to Peterman & Robinson, Laredo, at \$33,573.32 to grade and gravel 5.88 mi. State Highway No. 3, and at \$17,391.63 for drainage structures; Federal Aid Project No. 360-A.

Tex., Vernon—Wilbarger County plans paving Colorado-Gulf Highway from connection with paved highway through Wichita County at Electra, through Harrod, and improving roads north of Harrod; voted \$150,000 bonds. Address County Comms.

Tex., Waxahachie—Ellis County will receive bids until Feb. 29 for 3.04 mi. 18-ft. gravel road on State Highway No. 14, between Ennis and Palmer; 18,242.3 cu. yd. roadway excavation; 1684 lbs. reinforcing steel; 1055.89 sq. yd. 2-in. bituminous paving County to furnish gravel; W. A. Spalding, County Engr.; H. R. Stovall, County Judge.

Va., Norfolk—City rejected bids to resurface Broad Creek road within city limits; city will do work; Walter H. Taylor, 3rd, Director of Public Works.

Va., Vienna—Town plans improving Beulah St. from macadam road to corporate limits and from Lawyers road to Kenyon St.; Lawyers road from Dixons to Park St., and from Pleasant to Lewis Sts.; will vote soon on \$20,000 bonds. Address Joseph Berry, Chmn. of Council Comm.

W. Va., Bluefield—City will receive until Feb. 26 for following paving: Grading, catch basin work, curbing and concrete foundation approximately 36,000 sq. yd.; grading, catch basin work, curb and one course concrete pavement, approximately 24,000 sq. yd.; removing old pavements and constructing catch basins, curbing and concrete foundation approximately 38,000 sq. yd.; surfacing paving in projects 1 and 3; plans, etc., from Clarence E. Ridley, City Mgr.

W. Va., Charles Town—State Road Comm., Charleston, plan building 2 roads as follows: 1½ mi. from river bridge through Shepherdstown to point near Morgan's Grove fair grounds; road between Charles Town and Martinsburg.

W. Va., Huntington—Cabell County Court, will receive bids until March 5 to build public road on Raccoon Creek; 10,000 cu. yd. excavation; plans, etc., from J. M. Oliver, County Engr.

W. Va., Huntington—City plans paving 10th Ave. from 5th to 6th, and from 6th to 7th, and Orchard St. between 26th and 27th Sts.; A. B. Hunt, City Clk.; A. B. Maupin, City Engr.

W. Va., Logan—Logan County let contract to Langhorn & Langhorn Co., Huntington, at \$67,735, to grade and drain 3.6 mi. road from Chapmanville to Big Creek.

W. Va., Morgantown—State Road Comm., Charleston, plans building Holland Ave., Westover, 40-ft. wide of concrete under brick; across Monongahela River from Morgantown; estimated cost \$30,000 to \$40,000.

W. Va., Williamson—Mingo County Court will receive bids until Feb. 25 to improve 2 sections of roads as follows: Grade and construct drainage structures, on 6 mi. Rockhouse Fork road from Burch to point near mouth of Spring Branch; widen, ditch and surface with creek gravel, .76 mi. Williamson-Burch road from Burch to State Road at mouth of Little Buffalo Creek; 40 cu. yds. Class A concrete; 4000 lbs. reinforcing steel; 2100 cu. yd. creek gravel; plans, etc., from Holton Cook, County Road Engr.; L. G. Bray, Pres. County Court.

Sewer Construction

D. C., Washington—District Commissioners, Room 509 District Bldg., receives bids until Feb. 29 to construct about 3250 ft. of sewers.

Fla., Labelle—Details under Road and Street Construction.

Ga., Atlanta—City, E. Buchanan, Chmn. Council Sewer Comm. will expend \$106,000 in improvements and extensions to sewer system.

Ga., Macon—Details under Road and Street Construction.

La., Baton Rouge—City let contract at \$51,091 to J. B. McCary Co. of Atlanta, Ga., to construct S. Boulevard sewer main. (Lately noted).

Mo., Cameron—City Council has tentative plans for sewer district along Seminary St. Mo., Independence—City let contract to

Earl F. Audet for construction of sewer in Dist. No. 82 on Elm St.

Okla., Enid—City, R. T. Williams, Clk., receives bids until Feb. 20 for construction of sanitary sewer in Dist. No. 116.

S. C., Spartanburg—City Council let contract at \$17,315 to C. U. Buckhalter, Greenville, Ga., to construct approximately 18,414 ft. of sewer main on west side of the city. (Lately noted).

Tex., Galveston—City let contract at \$18,203.98 to M. C. Bowden, Galveston, to construct Ave. M drain from 25th to 31st St., with 25cts. yardage for excavation material. (Lately noted.)

Tex., Kerrville—City let contract at \$70,237 to Elder Construction Co., 235 Moore Bldg., for construction of sewer and disposal plant; Municipal Engineering Co., Cons. Engrs., Dallas, Tex.

Tex., Paris—City, will expend \$25,000 for extension of sewer system; A. C. Welborn, City Engr. (Lately noted).

Va., Norton—City has plans by M. O. & W. Engineering Corporation of Norton for sewer system; bond issue available.

W. Va., Huntington—Board of Commrs. receives bids until Feb. 22 to construct lateral sewer in alley between High and Fifth Ave. and 27th and 28th Sts., in Block 264; A. B. Maupin, City Engr.

Va., Richmond—Allen J. Saville, Director of Public Works, receives bids until Feb. 25 (ten contracts) for construction of segment block, terra cotta pipe, and precast reinforced concrete sewers; also to furnish materials including cement, castings and brick; estimated total cost of construction and material \$725,000. (See Machinery Wanted—Sewer Construction and Material.)

Telephone Systems

Mo., Springfield—Southwestern Bell Telephone Co., main office, Atlanta, Ga., R. G. Porter, Dist. Mgr., will expend approximately \$25,000 on improvements to system including aerial and under ground cable construction.

Tex., San Antonio—Southwestern Bell Telephone Co. will erect \$21,000 garage and warehouse building at Walter and Cherry Sts.

W. Va., Man—Chesapeake & Potomac Telephone Co., of W. Virginia, S. S. Flannagan, Mgr., has plans for the establishing of a new central office, Logan County, having direct trunk line connection with the Logan central office and switchboards of the large coal companies in that section.

Textile Mills

Ala., Samson—Geneva Cotton Mills let contract to Winter Hardware Co., Samson, for steam heating in mill now under construction.

N. C., Gaffney—Dever Little reported interested in erection of \$1,000,000 cotton mill.

N. C., Hemp—Moore County Mills, Capt. W. W. Cowgill, Pres., Pinehurst, N. C., has engaged Lockwood, Greene & Co., architectural engineers, Charlotte, N. C., to design mill building and village in connection with erection of plant for the manufacture of shirting; contract for mill building will be let soon. (Previously noted).

N. C., High Point—Piedmont Mills Co. will not erect any buildings as lately noted reported.

N. C., High Point—Highland Cotton Mills are not contemplating erection of buildings, as lately noted reported.

S. C., Lancaster—Lancaster Mills let contract to Potter & Shackelford, Greenville, S. C., for construction of 3 story weave shed; 104 x 180 ft.; cost about \$70,000. (Lately noted).

Tenn., Chattanooga—Davenport Hosiery Mills will erect addition in rear of present building on Georgia Ave.; cost \$20,000.

Tenn., Clinton—Magnet Knitting Mills increased capital from \$200,000 to \$300,000.

Water Works

Ala., Bessemer—Alabama Water Co., will expend approximately \$200,000 for improvements to water system; will install water mains to Hueytown and Dolomite, etc.

Ark., Camden—Robt. H. Barnes has acquired Camden Electrified Water Co.'s plant; will improve.

Fla., Daytona Beach—Details under Road and Street Construction.

Fla., Labelle—Details under Road and Street Construction.

Fla., Miami—Nelson, Bullock & Nelson let contract to C. H. Perry Co. for installation of water system in subdivision of Osceola Groves; contract includes putting in of wells and pumps, etc.

Fla., Pahokee—Details under Electric Light and Power Plants.

Fla., Winterhaven—Details under Land Developments.

Miss., Meridian—City voted \$80,000 bonds for improving water system; J. M. Slaughter, Supt. of Water Dept. (Lately noted).

Mo., Kansas City—Fire and Water Board let contract at \$356,000 to U. S. Cast Iron Pipe and Foundry Co., Burlington, N. J., and National Cast Iron Pipe Co., Birmingham, Ala., for 6234 tons of pipe; E. M. Stevens, Water Engr.

Mo., St. Joseph—St. Joseph Water Co. contemplate expenditure of \$600,000 for improvements in pumping, purification, transmission and distribution facilities.

Mo., Thayer—City, C. W. Black, Clk., receives bids until Feb. 21 to construct waterworks system and ice plant; Alexander Engineering Co., Engr., 517 Woodruff Bldg., Springfield, Mo.

N. C., Durham—R. W. Rigsby, City Mgr. receives bids until Feb. 28 to furnish and erect following apparatus and equipment: three 725 h.p. vertical hydraulic turbines; three 500 k.w. vertical generators; one 2000 k.v.a. and one 1000 k.v.a. sub-station; two 5000 g.p.m. centrifugal pumps arranged for turbine drive; two 260 h.p. horizontal hydraulic turbines; two 5000 g.p.m. centrifugal pumps arranged for motor drive, 150 ft. head; two 300 h.p. and two 400 h.p. synchronous motors with exciters; two 5000 g.p.m. centrifugal pumps arranged for motor drive 230 ft. head; one main station switch board seven circular openings, square frame sluice gates ranging from 42 to 72-in. diam.; six 12-in. circular opening sluice gates; three trash racks with mechanically operated rakes; Wm. M. Piatt, Engr., Durham, N. C.

N. C., North Wilkesboro—City rejected all bids for construction of water works and will open new bids Feb. 27; Carolina Engineering Co., Engrs., Charlotte, N. C. (Lately noted.)

N. C., Thomasville—City, R. M. Cooksey, Mgr. will expend about \$125,000 for construction of new plant for surface water supply; Wm. C. Olsen, Engr., Raleigh, N. C. (Lately noted.)

N. C., Wilkesboro—City let contract to W. A. Ebert, Charlotte, N. C., at \$40,000, for construction of water supply system; Carolina Engineering Co., Engrs., Charlotte, N. C. (Lately noted.)

Okla., Holdenville—City is receiving bids for improvements to water works and extensions to water mains; Marie L. Payne, City Clk.

Okl., Nowata—City voted \$75,000 bonds for water works improvement, including filter and pumping equipment, storage reservoir and water main extension; Oscar Dobbs, City Mgr. (Lately noted.)

S. C., Greenville—Details under Land Developments.

S. C., Spartanburg—City let contract to American Cast Iron Pipe Co., Birmingham, Ala., for 6800 ft. of 20-in. water main and 6000 ft. of 6-in. pipe; cost \$42,360; P. H. Norcross, Water Engr., Atlanta, Ga. (Lately noted.)

S. C., York—City is having plans prepared by Carolina Engineering Co., Wilmington, N. C., for improvements to water supply and treatment plant; will probably receive bids in about 90 days.

Tex., Houston—City, J. H. B. House, Water Commr. will soon call for bids for construction of 2 wells at central pumping plant.

Va., Charlottesville—City will expend \$500,000 in addition to water supply system; contract has been let for construction of necessary work, including 13 miles of 18-in. pipe, building tunnel through a small mountain and a dam.

Va., Norfolk—City, Walter H. Taylor, 3rd, Director of Public Works, rejected all bids for construction of water mains in annexed territory; work will be done by city's forces. (Lately noted.)

Va., Richmond—Society for Preservation of Virginia Antiquity, Mrs. John B. Lightfoot, Pres., let contract to Virginia Machinery & Well Co., 1319 E. Main St., Richmond, to install water system at Jamestown Island.

Woodworking Plants

Ark., Conville—T. W. Boswell of the Boswell Stave Co., reported to erect additional mill; is operating mill on Buffalo river.

Ky., Henderson—Kentucky Box & Crate Co., Inc. (lately noted incorporated), organized with M. L. Katterjohn, Pres., 658 Washington St.; let contract to W. T. Overby to erect one and two story, 101x85 ft. building; concrete and brick construction; will install woodworking machinery (used machinery preferred), will manufacture wire woven returnable shipping boxes. (See Machinery Wanted—Woodworking Machinery; Motors.)

La., Haynesville—W. W. Caldwell and R. E. Major, of Monroe, La., representing the Major Stave Co., contemplates establishing stave mill.

La., Lake Providence—Hennen Cooperage Co., Inc., increased capital from \$10,000 to \$25,000.

Md., Baltimore—Chas. M. Stieff, Inc., East Lafayette Ave. and Aiken St., will rebuild burned lumber shed, 125 x 20 ft.

Mo., St. Louis—Madewell Furniture Mfg. Co., incorporated by Walter Sepetowski, 6304 Wellsmar St., E. H. Spilker, 1442 Semplex St., and others.

N. C., High Point—Giant Furniture Co. let contract to Parks-Cramer Co., of Charlotte, N. C. for boiler and power piping at the new boiler plant, known as the vacuum system, consisting of modern equipment with feed-water heater, steam driven boiler-feed and vacuum pumps; will utilize the exhaust from 400 h.p. engine to heat new mill.

S. C., Clinton—Fuller Simpson Furniture Co., capital \$15,000, incorporated with E. G. Fuller, Pres.; W. H. Simpson, Sec.-Treas.

Va., Roanoke—Grand Piano Co., Inc., increased capital from \$25,000 to \$100,000.

FIRE DAMAGE

Ala., Anniston—Anniston Foundry Co.'s plant; loss \$25,000.

Ala., Anniston—Central Foundry Co.' plant lost \$100,000.

Ala., Gadsden—Harmony Church on Rainbow Drive. Address The Pastor.

Ala., Hartford — Will Hinson's store at Dundee.

Ala., Mobile—Marine Junk Co.'s warehouse; loss \$50,000.

Ark., Rison—W. L. Moody's blacksmith shop, loss \$10,000; Rison Ice Co.'s plant, loss \$12,000; Tom Fore's barn, loss \$3000.

Ala., Lewisburg—Commissary of the Alabama Company.

Ark., Little Rock—Arkansas Brick & Tile Co.'s boiler room, engine room and brick machine room; lost not estimated.

Ark., Little Rock—Rose City Cotton Oil mill, at North Little Rock; estimated loss \$100,000.

Ark., Searcy—Searcy Cotton Compress Co.'s plant; loss \$500,000.

Ga., Augusta—Augusta mill of the International Vegetable Oil Co., estimated loss \$15,000.

Ga., Rome—Rome High School; loss \$42,000; address Floyd County Board of Education.

La., Lake Charles—Lake Charles Implement Co., W. E. Patterson, Sec.-Treas.; building on Pine and Ryan Sts.

La., New Orleans—Local distributing plant of Victory Oil Co. in St. Bernard Parish; loss approximately \$100,000.

Md., Baltimore—Buildings occupied by Gill Piston Ring Co., 138 W. Mt. Royal Ave., Hose-Off Cleaning Co., 140 W. Mt. Royal Ave., Campbell-Niedringhaus Co., 142 W. Mt. Royal Ave., and box office of Lyric Theatre; estimated loss \$125,000.

Md., Baltimore—Chas. M. Stieff Piano Co.'s lumber yards at Lafayette Ave. and Aiken St.; loss \$50,000.

Md., Lothian — Dr. Robert Burwell's Country home; loss \$10,000. Address Dr. Burwell care Arundel Apts., Baltimore, Md.

Md., North Branch (R. D. Owings Mills)—Young's Hotel on Liberty Road; address H. W. Young.

Miss., Crystal Springs—Sol Lamar's store building.

Miss., Laurel—P. C. Gaddis' store building; loss \$150,000.

Mo., Kansas City—Bailey-Reynolds Chandler Co.'s building; loss between \$100,000 and \$150,000.

Mo., St. Louis—St. Louis Embroidery Co.'s plant, 1014 Tyler St., loss \$45,000.

N. C., Charlotte—Building occupied by paramount Film Exchange at 4th and Church Sts., loss \$10,000; Major W. R. Robertson, Owner.

N. C., Charlotte—Lindsey Fisheries Co.'s plant; loss \$100,000.

N. C., Currie—Six barns of Cape Fear Timber Co., owned by Will Mason, Wilbur Crews and Rowan Jones, latter of Winston-Salem.

S. C., Beaufort—Plant of the Beaufort Gazette, loss not estimated.

S. C., Lanes—J. H. Graham's residence; loss \$26,000.

Tenn., Chattanooga — Main building of Signal Mountain Inn; loss between \$150,000 and \$200,000; address C. E. James, James Bldg.

Tenn., Sharon—High School building; loss \$25,000; address Prof. M. D. Barron.

Tenn., Trenton — John W. Branson's cotton gine; estimated loss \$15,000.

Tex., Abilene — Alexander Sanitarium nurses' home on Victoria St.; loss \$25,000. Address Dr. J. M. Alexander.

Tex., Beaumont—E. A. Fletcher's residence; loss \$30,000.

Tex., Breckenridge—Storehouse of Col-Tex Co.'s carbon black plant; estimated loss \$20,000.

Tex., Dallas—Nelson Pharmacy; loss \$50,000.

Tex., Flatonia—Otto Wehmeyer's garage; loss not estimated.

Tex., Krum—Bewley elevator; loss \$10,000.

Tex., Morgan—C. B. Markham Building occupied by W. B. Bostic, Southwestern Telephone Exchange, offices of Frank Frazier and W. A. Lee; Ed. Wallace Building occupied by Bridgefamer Bros. Furniture store, name firm also occupied P. J. Ford Building; A. D. Majors' Building occupied by Mr. Majors as grocery store; total loss \$30,000.

Tex., Paint Rock—School building; loss \$16,500; address Concho County Board of Education.

Tex., Waco—Central Christian Church, 11th and Washington Sts.; loss \$60,000; address Rev. John W. Kerns, Pastor.

Va., Coeburn—Pepper Bros. Department store; Addington Jewelry store; Addington Mercantile Co.; Glancy Grocery Co.; Culbertson Grocery Co.; Grand Street Hotel; meat market and grocery store; total loss \$250,000.

Va., Farmville—Warehouse owned by D. W. Gillam; loss about \$120,000.

Va., Mulhall Station—W. L. Stricker's residence; loss \$8000.

Va., South Boston—Arch Street Grocer Co. and Johnson Furniture Co.; loss \$55,000 address Edmondson estate.

W. Va., Yorkville—Liberty Garage owned by Walter Batko, loss \$50,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ala., Anniston — Ancient Free and Accepted Masons, Julian F. Spearman, Grand Master, will soon ask for bids to complete building, for which basement and foundation are already constructed; Lockwood, Poundstone & Billie, Archts., Commercial National Bank Bldg., Anniston. (Previously noted.)

Ala., Foley — Ancient Free and Accepted Masons will erect Temple; Geo. B. Rogers, Archt., Van Antwerp Bldg., Mobile, Ala.

Ala., Selma—Young Men's Christian Assn., Chas. L. Orth, Gen. Sec., will probably have completed plans in about 3 weeks from Wm.

Leslie Welton, American Trust Bldg., Birmingham, Ala., for erection of \$137,000 building on Broad St.; Spanish renaissance type, 3 stories, stucco construction; lounge, and game rooms, offices, etc., on first floor; five 12x22-ft club rooms, rest rooms, kitchen and 11 dormitory rooms on second; 21 dormitories on third; swimming pool surrounded by tiling, lockers and showers; 45x75-ft. gymnasium with balcony to seat several hundred; plans to permit construction of 16 additional dormitory rooms on second floor and 21 additional on third floor when needed. (Previously noted.)

Ga., Quitman—Ancient Free and Accepted

Masons will probably erect Masonic Temple; 68x78 ft.; lodge rooms on second floor.

Ky., Fulton—Ancient Free and Accepted Masons have no immediate plans for erection of building on site on Walnut St. lately noted purchased.

La., Shreveport—Knights of Pythias are considering erection of Castle.

Mo., Kansas City—Northeast Lodge No. 643, A. F. & A. M., will erect \$75,000 Masonic Temple, Van Brunt Blvd. and Budd Park Esplanade; Gothic type, 3 stories and basement; auditorium, social hall; kitchen in basement; Dr. Geo. R. Hodge, E. H. Campbell, and others, members of Bldg. Comm.; will probably start work by May 1.

N. C., Rocky Mount—Corinthian Lodge No. 230, A. F. & A. M., and other Masonic organizations, plan to erect temple.

N. C., Sanford—Ancient Free and Accepted Masons will erect brick building, Steele and Carthage Sts.; 3 stories and basement, 50 x 90 ft.; first and second floors for offices or stores, upper floor for lodge.

N. C., Shelby—Ancient Free and Accepted Masons plan to erect building; stores or hotel to occupy first floors, lodge rooms above; architect not selected.

Okla., Ardmore—Benevolent Protective Order of Elks plans to erect 2-story building adjoining present structure; banquet hall to seat 300; will remodel present building.

Okla., Sapulpa—Labor Unions plan to erect \$25,000 Labor Temple.

Tenn., Knoxville—Amra Grotto, John B. Vick, Monarch, Dr. H. E. Christenbery, Director, plan to erect \$200,000 temple.

Tex., San Antonio—Benevolent Protective Order of Elks will remodel Elks' Club, Pecan & Jefferson Sts.; elevators on outside, glassed-in roof garden, new lighting system, interior redecorated, new dance hall, etc.; cost \$125,000; Phelps & DeWees, Archts., 7th Floor Gunter Bldg., San Antonio, will have plans ready in about 40 days.

Tex., Waxahachie—Waxahachie Lodge No. 90, A. F. & A. M., G. A. Neal, Worshipful Master, plans to erect Masonic Temple.

W. Va., Bluefield—Bluefield Masonic Trust Assn., has asked Mahood & Van Dusen, Archts., Bluefield, for estimates for 4-story temple in rear of Federal building.

Bank and Office

Ala., Jasper—Jasper Trust Co., will improve building; cost \$10,000; marble fixtures; material ordered.

Ala., Selma—O. M. Cawthon, Pres., Cawthon-Coleman Drug Co., will erect fireproof office building on Lauderdale St.; 2 stories, with provision for 2 additional stories later when elevator will be installed; brick construction, metal windows; cost at present, about \$40,000; John McKiel, Archt., Selma.

Ark., El Dorado—Title Guaranty Abstract Co. will erect building in 200 block N. Washington St.; probably 2 stories, brick.

Fla., Miami—W. C. DeGarmo, Miami, prepared plans for \$60,000 bank building to be erected on Coral Way, Coral Gables; Italian type, 2 stories colonnade, vaults, 12 tellers' cages, Italian marble entrance; F. M. Button, Landscape Archt., Miami; construction begun.

Fla., Port Orange—Halifax County Bank has accepted plans by Jas. J. Baldwin, Anderson, S. C., and Gaffney, S. C., for Spanish type 30 x 40-ft. building; cost \$15,000, including vault; construction will probably begin in a few weeks.

Mo., Kansas City—Home Trust Co., 1121 Walnut St., is having plans prepared by Greenebaum, Hardy & Schumacher, Kansas City, for alterations to first floor and basement of 1117-19 Walnut St., for new offices.

Mo., St. Joseph—Dr. Lerol Beck, City Health Officer, is interested in erection of

\$200,000 building for physicians and dentists. S. C., Fort Mill—First National Bank, Col. Thos. P. Spratt, Pres., will erect 3-story building on south side Trade St.; steam heat, sewerage; bank on first floor, offices on second, third undetermined.

Tex., San Antonio—Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio, announces that bids will be called for in about 2 weeks for construction of Medical Arts Bldg., Avenue E. and E. Houston Sts.; 12 stories triangular shape, concrete construction, tile roof, cement floors, Clifton George, Chmn., Bldg. Comm.; Willard L. Simpson Co., Engr., Nat. Bank of Commerce, San Antonio. (Previously noted.)

Tex., Tyler—Citizens National Bank, H. M. Bell, Asst. Cashr., advises bids will be opened on or about Feb. 18 for erection of bank and office building; 6 stories, mezzanine and basement; 5 upper floors for offices; cost \$225,000; Lang & Witchell, Archts., Dallas, Tex. (Lately noted.)

W. Va., Hillsboro—Bank of Hillsboro, J. K. Marshall, Cashier, plan to erect 30x50-ft. bank building, work to begin about May 1.

Churches

Ala., Albertville—Baptist Church, W. R. Bradford, Chmn., Finance Comm., is having plans prepared by Jas. E. Greene, Archt., Birmingham, Ala., for \$25,000 church and Sunday school building; will probably start construction about March 1. (Lately noted.)

Ala., Auburn—Protestant Episcopal Church of Diocese of Alabama at annual council in Birmingham recommended erection of \$40,000 church and parish house at Alabama Polytechnic Inst., Address The Bishop, Birmingham.

Ala., Gadsden—First Baptist Church tentatively adopted plans and specifications by R. H. Hunt Co., Chattanooga, Tenn., for erection of \$150,000 building, Walnut and 5th Sts.

Ark., Kensett—Standard Lumber Co., Pine Bluff, Ark., will furnish lumber and mill-work for new Methodist Church building.

Ark., Pine Bluff—First Methodist Church, Rev. W. P. Whaley, Pastor, plans to erect \$35,000 to \$40,000 Sunday school building.

Fla., New Smyrna—Catholic Church, Faulkner St., is considering erection of building. Address The Pastor.

Fla., New Smyrna—Congregational Church is considering erection of building. Address The Pastor.

Ky., Lexington—St. Peter's Catholic Church, Father Wm. T. Punch, Rector, has postponed building operations for the present. (Previously noted.)

Ky., Louisville—St. Agnes' Church plans to erect building. Address The Pastor.

Md., Baltimore—St. Thomas' P. E. Church Carswell and Taylor Sts., Rev. Chas. E. Perkins, Pastor, is having plans revised and will be ready for bids Feb. 20 for erection of church and parish house at The Alameda, 31st and 32nd Sts.; stone construction, 1 and 2 stories, wood, tile, composition and other floors, concrete foundation, slate roof, hollow and interior tile, steel sash and trim; Robt. L. Harris, Archt., 13 W. Saratoga St., Baltimore, Md. (Lately noted.)

Miss., Gulfport—Grace Memorial Church will erect brick veneer building to seat 700; tile roof, Sunday school rooms, library, etc.; Vinson Smith, Archt., Gulfport.

Miss., Gulfport—Mount Bethel Baptist Church, Colored, will erect Romanesque type brick veneer building to seat \$500; Sunday school rooms in basement; Vinson Smith, Archt., Gulfport; construction to begin in about 90 days.

Mo., Kansas City—South Prospect M. E.

Church, South, Rev. W. D. Kelley, Pastor, 4035 Highland Ave., plans to erect building, 51st St., and Montgall Ave.; 75 x 135 ft., natural stone and brick, faced with stone; construction in 2 units to cost \$30,000 and \$40,000 each; work on basement and first floor of first unit to start upon completion of plane.

Mo., Plattsburg—Christian Church plans to erect addition. Address The Pastor.

Mo., St. Louis—First Presbyterian Church, Dr. C. E. Jenney, Pastor, purchased site at Delmar Blvd. and Overhill Drive, University Hills sub-division, as site for new building.

Mo., Springfield—Cumberland Presbyterian Church has broken ground for \$30,000 brick and stone building; plans not completed. Address The Pastor.

N. C., Durham—Edgemont Presbyterian Church is reported to be considering erection of \$19,000 building. Address The Pastor.

N. C., Durham—Lakewood Methodist Church plans to erect addition. Address The Pastor.

N. C., Elizabeth City—First Baptist Church is having plans prepared by B. F. Mitchell, Norfolk, Va., for erection of \$50,000 Sunday school annex.

N. C., Wilson—St. Timothy's Episcopal Church, W. J. Boykin, Dr. C. E. Moore, and others, Vestry, will erect \$20,000 parish house to provide Sunday school rooms and social hall; 2 stories, brick.

Okla., Wewoka—Baptist Church, Rev. John M. Via, Pastor, plans to erect \$20,000 building.

S. C., Rock Hill—Grace Lutheran Church, Rev. H. A. Schroder, Pastor, plans to erect building, Oakland and Aiken Aves.

Tex., Austin—Highland Presbyterian Church will erect \$135,000 building, San Antonio and 22nd Sts.; construction to begin in near future. Address The Pastor.

Tex., Beaumont—First Methodist Church, Dr. J. Walter Mills, Pastor, has completed preliminary plans for erection of \$50,000 addition during 1924.

Tex., Canyon—First Presbyterian Church purchased site for building, 5th Ave. and 4th St.; will soon select architect. Address The Pastor.

Tex., Celina—Methodist Church, Mayor J. E. Owsley, Chmn. Bldg. Comm., will erect building; W. A. Tackett, Archt., Sherman, Tex.

Tex., Colorado—First Christian Church, Rev. J. E. Chase, Pastor, will erect \$50,000 brick and stone building, Elm and N. 4th Sts.

Tex., Paris—First Methodist Church has completed plans by C. V. Krider, Paris, for erection of building, Blythe and S. Poplar Sts.; Corinthian columns; basement and wing for Sunday school.

Tex., Prosper—John W. Westbrook, 407½ N. Bishop Ave., Dallas, Tex., prepared plans for erection of brick and stone trim church building; bids opened Feb. 16.

Tex., San Antonio—First Baptist Church authorized Bldg. Comm., Wallace Rogers, Chmn., to call for bids for erection of building at 4th and Taylor Sts.; cost about \$150,000, 120 x 120 ft., concrete frame with steel trusses, brick walls, terra cotta trim, concrete and hardwood floors, hollow and interior tile, ventilators, steel sash and trim, composition roof, heating and cooling plant; Will N. Noonan, Archt., 240 Moore Bldg., San Antonio. (Previously noted.)

Tex., Waco—Central Christian Church, Rev. John W. Gerns, Pastor, will rebuild structure noted burned at \$60,000 loss.

Tex., Wichita Falls—First Presbyterian Church is having plans prepared by Clarence

G. Bulger, Dallas, Tex., for \$75,000 addition to and remodeling present building; ready for bids about Feb. 25.

Tex., Winters—First M. E. Church, South, will receive bids until Feb. 25 for construction of building; plans and specifications from J. W. Monroe Lumber Co., Winters; cost \$30,000, 2 stories, face brick, tar and gravel roof, plaster, art glass windows, hot air heat; Wm. C. Meador, Archt., Dan Waggoner Bldg., Fort Worth, Tex. (Previously noted.)

Va., Amherst—Emanuel Methodist Church plans to erect building. Address The Pastor.

W. Va., Clarksburg—Immaculate Conception R. C. Church will soon call for bids for erection of building at E. Pike St. and Maple Ave. Address The Pastor.

W. Va., Logan—Ben Tobin is President of Hebrew Congregation planning to erect synagogue.

City and County

Ala., Birmingham—Fire Station—City will erect \$8000 to \$10,000 fire station at Graymont; E. B. Van Keuren, Archt., Birmingham; bids opened Feb. 12.

Fla., Plant City—City Hall and Jail — Town of Forest Park, near Plant City, will let contract to erect concrete block city hall and jail building; Carey & Walter, Inc., Plant City, to furnish concrete blocks. Address, Harold S. Brown, Clerk.

Fla., Tampa—Auditorium, Market, Fire Station, Hospital—City, Perry G. Wall, Mayor, has postponed election on \$3,000,000 bonds lately noted to be held Feb. 12, and plans to call election about the middle of March or later; issue includes bonds for auditorium, market, fire stations, hospital, etc.

Fla., West Palm Beach—Municipal Auditorium—City, H. M. MacPherson, Clk., contemplates calling \$500,000 bond election for municipal auditorium and general purposes. (Lately noted to vote Feb. 5).

Ga., Atlanta—Fire Station—City, Walter A. Sims, Mayor, plans to erect \$12,500 fire station in ninth ward.

Ga., Macon—Stadium, Fire Engine House, etc.—City, David S. Yates, Sec. to Mayor, will vote April 14 on bonds, including \$25,000 for fire engine house and purchase and repair of fire equipment, and \$100,000 for municipal athletic stadium.

Ky., Louisville—Courthouse Additions—Jefferson County, A. T. Burgevin, Judge of Criminal Court, is considering erection of east and west wing additions.

La., Opelousas—Courthouse—St. Landry Parish will receive bids until Feb. 23 (extended date) for erection of annex to courthouse and installation of steam heating system; building to be brick and concrete, 2 stories, wood and tile floors, slate and build-up roof; Herman J. Duncan, Archt., 120 Murray St., Alexandria, La. (Lately noted.)

Md., Baltimore—City Hall Annex—Mayor's Committee on Economy & Efficiency, Ezra B. Whitman, Chmn., is considering erection of city hall annex on site of Hoen Bldg., Lexington St. and Guilford Ave., or remodeling this structure.

Mo., Caruthersville—Courthouse—Pemiscot County, S. E. Juden, will have plans completed about March 30 by H. H. Hohenschild Co., Odd Fellows Bldg., St. Louis, Mo., for erection of \$150,000 brick and stone courthouse. (Previously noted.)

Mo., Charleston—Jail—Mississippi County is considering calling bond election for jail. Address County Commrs.

Mo., Conception Junction—Jail—City Council

will call election to vote on bonds for jail to house police and fire depts.

N. C., Asheville—Library—City, John H. Cathey, Mayor, will erect Pack Memorial Library on site of present structure in Pack Square; 2 stories; Edw. L. Tilton, Archt., 141 E. 45th St., New York City. (Lately noted.)

S. C., Columbia — Richland County, W. C. McLain, Atty., is considering erection of new courthouse or joint city and county building; may call \$500,000 bond election in April.

S. C., Greenwood—Municipal Building—Chamber of Commerce is interested in erection of municipal building; K. B. Harris, Paul Watkins, and others, members of committee.

Tex., Palestine—Remodeling—Anderson County Commrs.' Court, T. M. Campbell, Jr., County Auditor, will receive bids until March 3 for remodeling insane ward on third floor of county jail, installing new cells, repairing lever locking systems of the 2 blocks of Felon Cell, installing safety vestibules in all felon cell corridors and other work in accordance with plans and specifications by Southern Steel Co., San Antonio, Tex., on file at their office and office of Mr. Campbell.

Tex., Childress—Jail—City, J. H. Calloway, Judge, will issue \$30,000 warrants for erection of jail.

Tex., Corsicana — Municipal Building — City is having plans and specifications completed for erection of \$50,000 municipal building.

Tex., Houston—Library—Wm. Ward Watkins and L. A. Glover, Archts., Houston, will open bids Feb. 15 for first section of \$750,000 library; cost \$200,000, 3 stories and basement, brick, stone and reinforced concrete construction, tile roof; Cram & Ferguson, Conslt. Archts., 15 Beacon St., Boston, Mass.; Rev. Harris Masterson, Chmn., Library Board Bldg. Comm., Autry House, Rice Inst., Houston. (Lately noted.)

Va., Wise—Detention Home—Wise County will erect \$100,000 detention home for girls on County Farm; tentative plans have been drawn by R. E. McGeekin, Big Stone Gap, Va.

Dwellings

Ala., Birmingham — Protestant Episcopal Church of Diocese of Alabama recommended erection of \$35,000 residence for Bishop Coadiator.

Ark., Biggers—Will Lingle will erect bungalow.

Ark., Camden—Geo. P. Gordon will erect brick residence on W. Washington St.

Ark., Little Rock—Cullins & Hudson will erect 3 brick veneer dwellings, 611-15-17 North St.; cost \$5000 each.

Ark., Little Rock—E. J. Schay will erect \$10,000 two-story brick veneer residence at 2422 Broadway.

Fla., Clearwater—Steven B. Ayres will rebuild residence lately noted burned at Sunset Point at \$20,000 loss, construction to begin in Fall, probably in October; hollow tile, plaster board, concrete floors, steel sash and trim; advises too soon for other details.

Fla., Bradentown—Dr. W. H. Heppenroth, Elwood, Ind., purchased site and will erect winter residence.

Fla., Miami—E. B. Douglas will erect \$35,000 Spanish and Italian type residence, 54th St., Buena Vista; 2 stories, 110 x 48 ft., concrete block, carved stone trim and stone floor in hall; 3 baths, 2-car garage connected with residence; Kiehnel & Elliott, Archts., Miami.

Fla., Miami—W. Z. Henderson will erect \$20,000 residence on N. W. 8th St. and 16th Ave.; 2 stories, concrete and tile, electrical

equipment, built-in features; construction to begin in about 1 week.

Fla., Miami Beach—A. P. Green, Mexico, Mo., will erect \$45,000 residence in Nautilus sub-division; Henry A. LaPointe, Archt., Miami, Fla.

Fla., Miami Beach—Geo. L. Hasbrouck, Berwyn, Pa., will erect residence in Nautilus sub-division.

Fla., Miami Beach—Miami Beach Improvement Co. will erect two \$8000 dwellings in Orchard sub-division No. 2; 2 stories, 5 rooms, concrete block and stucco, Spanish type; Kiehnel & Elliott, Archts., Miami.

Fla., St. Petersburg—A. L. Breeding and J. H. McBath will erect 3 frame bungalows in Bayview sub-division at 12th Ave. and Oak St.; 5 rooms and bath each.

Fla., St. Petersburg—R. G. Walling purchased 12 lots in Coffee Pot addition and is reported to build.

Fla., Stuart—J. Leonard Replogle, Palm Beach, Fla., and New York City, purchased 2 tracts between county road and ocean, and is reported to sub-divide and erect number of dwellings for associates.

Ky., Catlettsburg—Sam Rule will erect residence on Broadway.

La., Baton Rouge—C. C. Buell will erect residence on Madison Ave., Fairfields.

La., Baton Rouge—E. C. Templet plans to erect residence in Fairfields.

La., Baton Rouge—N. C. Vickers will erect residence on Madison Ave., Fairfields.

La., New Orleans — C. C. Alrough will erect \$14,000 single residence; Moise H. Goldstein, Archt., Title Guaranty Bldg., New Orleans.

La., Monroe—Arent Investment Co., purchased 400 acres in Ouachita Parish and will erect number of dwellings.

La., New Orleans—Jos. Haule, 4537 S. Rocheblave St., will erect 2 bungalows, Elk and Elba Sts.; total cost \$10,000.

La., Shreveport—Randle T. Moore will erect 2-story brick dwelling, 951 Fairfield Ave.; cost \$80,000.

La., Shreveport—D. Winders will erect number of 1-story dwellings on Buena Vista St. and alley and Clay St. and Alley; cost \$10,000.

La., Shreveport—J. T. Harrison will erect 4 one-story frame dwellings and garages, 146-60 Prospect St.; total cost \$20,000.

Md., Baltimore—Harry Bart, 2531 Barclay St., will erect 3 two-story brick dwellings, east side Pimlico Rd. near Cold Spring Lane; total cost \$15,000; 16x32x24 ft. each.

Md., Baltimore—Modern Homes Corp. will erect 8 two-story brick dwellings, S. E. cor. Belair Rd. and Clifftown Ave., 13 at S. E. cor. Belair Rd. and Longview Ave. and 13 at S. E. cor. Belair Rd. and Mareco Ave.; each 15x48x30 ft.; total cost \$100,000.

Md., Baltimore—R. B. Construction Co. will erect 7 two-story brick dwellings, north side Summit Ave. west of Pimlico Rd.; each about 17x33x25 ft.; total cost \$17,000.

Md., Baltimore—Frank B. Brady, 635 N. Carey St., and Robt. A. Brady will erect 12 two-story brick dwellings, S. E. cor. Washington Blvd. and Baltimore & Ohio R. R.; total cost \$27,000.

Md., Baltimore—City & Suburban Realty Co., Harford Rd. and Hamilton Ave., Hamilton, will erect five 1½-story frame bungalows, east side Walnut Ave. south of Hemlock Ave., east side Fair Oaks Ave. south of Hemlock, S. E. cor. Walnut and Arbutus Aves, total cost \$15,000.

Md., Baltimore—Maurice E. Green, 2332 Frederick Ave., will erect 1-story frame residence, N. W. cor. Edmondson and Brookwood Aves.; cost about \$10,000, 40x33x20 ft.

Md., Baltimore—Walter C. Leimbach, 7 St. Paul St., will erect 2½-story residence, south side Northfield Place near Somerset Rd.; frame, 40 x 25 x 25 ft., cost \$11,000.

Md., Baltimore—Seth H. Linthicum, 20 E. Lexington St., will erect 7 two-story dwellings, S. E. cor. Washington Blvd. and Breitwert Ave. and 3 on Breitwert Ave. near Washington Blvd.; total cost \$30,000.

Md., Baltimore—John J. Kirkness, 118 E. 33rd St., will erect 12 dwellings, north and east sides Clarence Ave. north of Erdman Ave., 6 on N. W. and 6 on N. E. cor. Erdman and Clarence Aves.; 2 stories, 16x30x27 ft., brick; total cost \$120,000.

Md., Baltimore—John J. Kolb will erect \$10,000 two-story concrete residence, S. E. cor. Carnegie and Gary Aves.

Md., Baltimore—Louis C. Roche, 1430 Linden Ave., will erect 2-story frame residence, S. E. cor. Gittings Ave. and Oak Lane; 35 x 25 x 20 ft.; cost about \$10,000.

Md., Baltimore—Geo. W. Schoenhals, 1112 Munsey Bldg., will erect 31 two-story brick dwellings, 2301-25 and 2401-35 W. Lafayette Ave.; total cost \$155,000.

Md., Baltimore—Ten Hills Corp., Chapel Gate Lane and Edmondson Ave., will erect \$10,000 dwelling, east side Orchard Rd. south of Edmondson Ave.; 2 stories, 32 x 44 x 24 ft., frame.

Md., Baltimore—Walbrook Construction Co. will erect 9 two-story brick dwellings, north and south sides Presstman St., near Poplar Grove St.; total cost \$35,000.

Md., Baltimore—Anna Walthers, 205 Harmon St., will erect \$11,000 residence, S. E. cor. Forest Ave. and Division Lane; 2 stories, 48 x 36 x 31 ft., frame.

Md., Chesapeake Beach—Bauman & Heinzman have completed plans for erection of number of summer cottages; bungalow type, 3 to 5 rooms and bath, porches; 10 cottages of first group to be started in March.

Mo., Independence—E. A. Davis will erect stucco residence on Pacific St.

Mo., Independence—F. W. Latimer will erect residence at 116 E. Ruby St.

Mo., Independence—H. E. Wheelock will erect 2 dwellings on River Blvd.

Mo., Kansas City—South Paseo Building Co., Jas. A. Hoyt, Pres., incorporated and will erect 22 bungalows on 5-acre tract between 72nd, 73rd, Park and Brooklyn Aves.

Mo., New Florence—Gordon Nunnally will erect residence.

Mo., Springfield—Fred Johnson will erect bungalow.

N. C., Asheville—J. M. Chiles, Pres., Kenilworth Development Co., plans to erect 30 to 50 dwellings in Kenilworth during 1924, in addition to making other improvements.

N. C., Charlotte—Grayson Park Realty Co., W. M. Rhyne, Pres., purchased 60-acre tract on Monroe Rd., 4 miles from Charlotte, and will erect 45 or more dwellings during 12 months.

North Carolina—Coast Guard Headquarters, Darby Bldg., Washington, D. C., will receive bids until Feb. 29 for construction of dwelling and accessories for Bodie Island Coast Guard Station, S. C.; information on application from Supt., 7th Dist., Coast Guard, Field Asst. M. P. Hite, C. & R. U. S. Coast Guard, both Elizabeth City, N. C., or from Coast Guard Headquarters, Washington, W. V. E. Jacobs, Capt., U. S. Coast Guard, Act. Commandant.

N. C., High Point—Miss Pattie Newlin will erect \$10,000 residence on N. Main St.

Okla., Tulsa—Neil Grubb will erect \$27,000 residence at 245 E. Hazel St.

Okla., Tulsa—H. E. Hanna will erect \$8000 dwelling, 1439 S. Norfolk St. and \$4000 dwelling, 2004 E. 13th St.

Tenn., Knoxville—H. E. Rogers will erect \$14,000 residence, 1712 W. Clinch Ave.; 2 suites, 10 rooms, frame.

Tenn., Memphis—Ben E. Berry purchased 3 lots on N. Auburndale Place and 1 on Evergreen Place, University Park sub-division, and will erect 4 bungalows.

Tenn., Memphis—W. C. Johnson will erect 2 dwellings east of Highland Ave., Longview sub-division; one English type, half timber and stucco, composition shingle roof, brick terrace, 2 baths, hardwood floors, hot water heat; one Colonial type, brick and weather-board, composition roof; Hanker & Cairas, Archts., Memphis; construction to start soon.

Tenn., Memphis—Ben P. Dlugach purchased 10 lots, Washington Ave. and Cooper St. and will erect 10 bungalows.

Tenn., Memphis—J. A. Haley will erect two 6-room brick veneer dwellings, 1855 York and 1205 Tanglewood Sts.; garages \$100 each; heat \$500 each.

Tex., Austin—D. Gellman will erect \$10,000 residence on W. 12th St.; 1 story and basement, stucco, shingle roof, edge grain pine floors, hot air heat; E. C. Kreisle, Archt., Scarborough Bldg., Austin.

Tex., Ballinger—Paul G. Silber & Co., 331 Bedell Bldg., San Antonio, Tex., has completed plans for remodeling residence for Ralph Erwin; date of opening bids not set.

Tex., Caldwell—I. Earl Porter will remodel residence; Paul G. Silber & Co., Archts., 331 Bedell Bldg., San Antonio, Tex.

Tex., Dallas—J. V. Lincoln will erect \$35,000 residence on Swiss Ave., Munger Place; 2 stories, brick, Tudor-Gothic type, solarium, 2 baths, tile terrace floors; Jas. Calloway Teague, Archt., Dallas.

Tex., Galveston—Henry Adriance will erect \$12,800 two-story stucco residence.

Tex., Houston—Geo. Dorrance is receiving bids through J. W. Northrup, Archt., Houston, for erection of 2-story stucco residence in Edgemont.

Tex., Houston—Lawrence Lipper will erect \$14,500 residence, 3709 Montrose St.; 2 stories, brick veneer.

Tex., San Antonio—A. M. Delavan has low bid at \$8874 from C. H. Brient for construction of residence; low bid for electrical work from Travis Electric Co., at \$147; plumbing from T. W. Langan, \$1030; heating, Chalkley Bros., \$620; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., all San Antonio. (Late-ly noted.)

Tex., San Antonio—Chas. Renz, 114 Delaware St., will erect residence on Adolph St., Highlands sub-division.

Tex., San Antonio—H. C. Thorman will erect 28 five-room dwellings on Carnahan Ave., Country Club Place, in addition to 10 under construction on Kayton Ave.; total cost \$84,000; brick work, hardwood floors, tile baths, built-in features; owner builds.

Tex., San Antonio—Julius P. Barclay will erect residence in Monte Vista; Harvey P. Smith, Archt., National Bank of Commerce Bldg., San Antonio.

Tex., San Antonio—Louis Brown, 710 Virginia Blvd., will erect 5-room bungalow Utah St. near Piedmont St.

Tex., San Antonio—H. R. Forsythe, New York City, and N. E. Parriss, Boston, Mass., will erect 24 rustic cottages in connection

with development at Sutherland Springs. (See—Hotels and Apartments—Proposed).

Tex., San Antonio—Mrs. Grace R. Murray, 918 N. Olive St., will erect 5-room bungalow, block 13, Blue Bonnett Hills Addition.

Tex., San Antonio—Jas. C. Perry, Brady Bldg., will erect 4 or 5-room bungalow in Temple Hill Addition.

Tex., Taylor—Frank Womack will erect \$14,000 stucco residence; tin roof, oak floors, hot water heat; Edw. C. Kreisle, Archt., 803 Scarborough Bldg., Austin, Tex.

Va., Graham—Wells & Lyton purchased site on Onley Ave. and will erect residence.

Va., Radford—Will Baldwin, care Baldwin Land Co., will erect 2 dwellings.

Va., Radford—Willis & Walker, Roanoke, Va., in conjunction with Roanoke Building & Loan Assn., purchased 30 lots and will erect 10 dwellings to start and others later; cost \$2500 to \$4000 each; Baldwin Land Co., Radford, will install sewers.

Va., Richmond—Bache, Moore & Miller, Inc., Richmond Real Estate Exchange Bldg., is having plans prepared for about 100 dwellings to be erected for client; total cost about \$750,000.

Va., Richmond—Beulah P. Warrick will erect \$11,000 residence at Bridge Lane and Belt Line R. R.; 2 stories, frame and stucco.

Va., Richmond—D. B. Robins will erect \$12,000 brick residence on Beverly St. near Belmont Ave.

W. Va., Fairmont—West End Improvement Co., R. B. Perry, Agt., will erect 2 dwellings on Colborn St. and 3 on Sterling Rd., all Sterling Heights; 2 stories, frame, 18 x 26 and 18 x 28; total cost \$20,000; also \$150 supply house on E. Virginia Ave.

Government and State

Fla., Miami—Post Office—W. C. DeGarmo, Miami, prepared plans for \$50,000 Italian type building on Coral Way, Coral Gables, to house post office and number of stores; 1 story, colonnade; F. M. Button, Miami, landscape Archt.; construction begun.

Hospitals, Sanitariums, Etc.

Ark., Booneville—Board of Directors of Grand Lodge, A. O. U. W. of Arkansas, adopted resolution to erect cottage at Arkansas Tuberculosis Sanatorium at cost not to exceed \$12,000.

Fla., Tampa—City, Perry G. Wall, Mayor, plans to call election about middle of March, or later, on \$3,000,000 bonds, including \$215,000 bonds for Gordon Keller Hospital and additional ward for hospital for negroes to cost \$35,000, lately noted. (See Buildings Proposed—City & County).

Ky., Pikeville—United States Veterans Bureau, Frank T. Hines, Director, Room 791, Arlington Bldg., Washington, D. C., will receive bids until March 11 for construction complete of 1 fireproof hospital building, 1 double officer quarters of brick and frame construction, 1 brick and frame well house, 1 steel water tank and 1 drilled well to be built at U. S. Veterans Hospital; work includes concrete foundation work, reinforced concrete slab construction, limestone, brick and terra cotta tile work, metal lathing, built-up and slate roofing, cement, mastic, tile and wood flooring, slate and marble work, carpentry, ironwork, interior plastering, interior and exterior painting, glazing, hardware, heating, plumbing and electrical installation, outside service connections and approach work; drawings and specifications from Construction Div., Room 791, Arlington Bldg.

Md., Baltimore—Johns Hopkins Hospital,

Dr. Winford H. Smith, Director, has completed plans by Jos. Evans Sperry, Calvert Bldg., Baltimore, for erection of \$1,000,000 dispensary on site of present structure on Monument St. to connect with pathological and surgical buildings; operating rooms on seventh floor; \$750,000 to be expended for equipment.

Okla., Fort Sill (Ind. Branch Lawton)—Constructing Quartermaster will receive bids until March 1 for construction, including heating, plumbing and electrical equipment, of 2-story hospital ward of concrete, brick, tile and stone, approximately 57x52 ft.; drawings and specifications from Constr. Quartermaster.

Tenn., Knoxville—Dr. H. E. Goetz and others purchased Neubert Springs Hotel; will organize corporation with \$200,000 capital and remodel building for sanitarium for nervous disorders.

Tex., San Antonio—H. R. Forsythe, New York City and N. E. Parris, Boston, Mass., will remodel old hotel into sanitarium, in connection with development at Sutherland Springs. (See—Hotels and Apartments—Proposed).

Tex., Sherman—Dr. Jas. C. Wilson is considering erection of veterinary hospital in East Sherman.

Hotels and Apartments

Ala., Fairfield—Tennessee Coal, Iron & Railway Co., Geo. Gordon Crawford, Pres., is reported to contemplate erecting 2 terrace type apartment houses with 10 apartments each; for use of employees.

Ark., Jonesboro—E. B. and Crawford Noble, managers of Hotel Noble, contemplate erection of 2-story brick and tile addition; 80x125 ft., pine flooring, brick foundation, composition roofing; Archt. not selected; will let contract about June. (Lately noted.)

D. C., Washington—Wm. A. Hill has started construction of 5-story English basement apartment building at 2010 Kalorama Road; will contain 30 apartments of 3, 4 and 5 rooms each; Claude N. Norton, Archt., Washington, D. C.

Fla., Miami—Abbott Anderson plans to erect 7 apartments, 20 rooms, at 244 S. W. First St., to cost \$25,000.

Fla., Miami—J. S. Anstell plans to erect 4 apartments in Buena Vista to cost \$10,000.

Fla., Miami—J. A. Thompson, Utica, N. Y., purchased block of 10 lots, in subdivision of Fulford-by-the-Sea, and plans to erect 100-room hotel to cost \$200,000; work to start in 30 days.

Fla., Miami—M. H. Walpert plans to erect 4 apartments at S. W. Tenth Ave., to cost \$35,000.

Fla., Oldsmar—Oldsmar Land Development Co. contemplate erection of \$1,000,000 tourist hotel on Bay Beach; will open bids for construction in early spring; Spanish type, 160 rooms, unit plans to permit enlargement, 5 stories, frame and stucco, concrete foundations, hollow tile, metal ceilings, hardwood and concrete flooring, plaster board, ventilators, wire glass, steam heat, 3 low speed elevators; plans include bathing beach, yacht basin and pier; 18-hole golf course laid by Wayne E. Stiles; address A. M. Cornwell, 11 N. Seventh St., St. Louis, Mo. (Lately noted.)

Fla., Pensacola—Jno. B. Guttman estate plans to convert house at 209-11 West Cervantes St. into 4 apartments of 5 rooms each.

Fla., Sarasota—John Ringling is reported to plan erection of 42-room hotel as private headquarters for New York National League Baseball Club.

Fla., St. Petersburg—Oak Ridge Hotel Corp. has been organized and contemplates erection of \$100,000 apartment hotel on northwest cor. Disston and Central Aves.; will be erected in 3 units.

Fla., Stuart—Southland Bond & Mortgage Co., S. W. Hind, Pres., recently organized with capital stock of \$50,000 and S. W. Hind & Co., S. W. Hind, Pres., announce plans for 100-room hotel on St. Lucie River to cost \$150,000, will be named Pelican; construction in spring.

Fla., West Palm Beach—Edward C. Sweeny, Pres. Chamber of Commerce of Saratoga, N. Y., is promoting erection of hotel on South Ocean Blvd.

Ga., Athens—W. S. Holman is having plans prepared and will soon ask for bids on remodeling and converting 9-story office building at Clayton & Lumpkin Sts., into hotel.

Ga., Macon—Chamber of Commerce has asked W. L. Stoll, Vice-Pres., Hockenbury System, Harrisburg, Pa., to make study of hotel conditions and assist local interests in outlining program for erection of tourist hotel.

Ga., Stone Mountain—Sherwood Forest Estate, Inc., Healey Bldg., Atlanta, Ga., is having plans prepared by G. Lloyd Preacher, Atlanta, Ga., for erection of 6-story, 250-guest room hotel; cost \$1,000,000; in connection with \$5,000,000 resort; old English type; in park of 500 acres; landscaping and painting and 18-hole golf course under direction of E. S. Draper, 507 Fifth Ave., and Donald Ross, 450 Seventh Ave., Golf Archts., New York City. (Lately noted.)

Ky., Owensboro—Otho Fowler, Pres., Kentucky Hotel Co., and Mgr. Rudd House, has plans and specifications by H. L. Stevens & Co., Archts., and Engrs., 30 N. Michigan Ave., Chicago, Ill., for erection of hotel; present 2-story annex will be torn down and new section to cost \$75,000 will be erected; will be built in 2 sections with front and rear courts, English design, loggia entrance between 2 sections, contain 75 rooms each with bath; 112-135 ft., fireproof, steel and concrete, tile or brick veneering; coffee shop, kitchen and dining room on first floor.

Ky., Whitesburg—S. H. Hart will erect rooming or apartment house; also restaurant; cost \$10,000. Contract at once.

La., New Orleans—Dr. Charles H. Turley has plans and specifications by E. B. Mason, 512 Baronne St., New Orleans, for erection of 2-story, 6-apartment building on St. Ann, Olympia and Orleans Sts.; frame stucco, tile roof, hardwood floors, ornamental iron; cost \$30,000.

Miss., Batesville—Plans are in progress for erection of 35-room hotel; backed by local capital. Address Chamber of Commerce.

Mo., Cape Girardeau—W. D. Black, mgr., Idan-Ha Hotel, is receiving bids for erection of 40-room addition.

N. C., High Point—C. E. Feree will erect 2-story, 12-room apartment house at Richardson and Steele Sts.

N. C., Hickory—Hickory Hotel Co., J. A. Moretz, Pres. Board of Directors, employed C. C. Hartman, Greensboro, N. C., to prepare plans for \$250,000 hotel on Abernethy property, Eleventh Ave. and Thirteenth St.; fireproof, lobby, 5 stories on Eleventh Ave. side and 6 stories high. (Lately noted.)

Okla., Oklahoma City—G. A. Nichols is reported to contemplate erection of apartment hotel of 80 apartments at a cost of \$500,000.

Tenn., Chattanooga—C. E. James contemplates rebuilding main building of Signal Mountain Inn recently destroyed by fire at loss between \$150,000 and \$200,000.

Tenn., Knoxville—Dr. J. V. Henderson plans to erect apartment house at 1807-09 West Clinch Ave., to cost \$30,000.

Tex., Brenham—J. L. Vann plans erection of hotel building to cost \$65,000, brick and concrete, Archt. will soon be selected.

Tex., Dallas—Dallas Hotel Co., operators of Adolphus and Adolphus Annex, representing Busch interests, contemplate erection of 22-story addition on property recently acquired on Commerce St. between Adolphus and Annex, extending through to Main St. Cost about \$1,000,000; about 200 rooms; remodeling lower floors will bring 11 elevators in new building, addition will be "L" shaped; 25 ft. wide on Commerce St. front and 100 ft. deep; front 65 ft. will be 2 stories, rear section, 35x50 ft., will be 22 stories; building facing Main St., 50x100 ft., will be remodeled and converted into arcade entrance to hotel from Main St.; space for 40 sample rooms will be provided; R. B. Ellifritz, manager; Alfred C. Bossom, Archt., 680 Fifth Ave., New York City.

Tex., Houston—L. Gabert plans to erect 16-apartment building, each apartment 3 efficiency rooms, 16 baths, frame, brick veneer; cost \$25,000.

Tex., Houston—Ben Davis contemplates erection of \$12,000 apartment house at 2801 Crawford St.

Tex., Houston—Mrs. B. Rogers contemplates remodeling Capitol Bldg., burned by fire; will be converted into fireproof 2-story structure, interior walls of metal lathes and plaster or concrete and all metal protected by concrete; cost \$38,000.

Tex., San Antonio—Chas. T. Boehlhaue, City National Bank Bldg. and R. A. Baker, contemplate erection of 30-apartment building at Fredericksburg and Callihan Roads to cost \$150,000; 4 stories, brick and stone; plans by Mr. Boehlhaue.

Tex., San Antonio—H. R. Forsythe, New York City, and N. E. Parris, Boston, Mass., are reported to have purchased Sutherland Springs, a 1000 acre plot near San Antonio, through T. J. Williams, San Antonio, and contemplate improvements; will include tourist hotel, 125 rooms, Spanish-Italian Architecture; concrete swimming pool; 18-hole golf course; remodel old hotel into sanitarium; 24 rustic cottages.

W. Va., Wheeling—Knights of Pythias are planning erection of business block and hotel; stores on first floor and garage under building; 3 stories below street level.

Miscellaneous

Ark., Monticello—Arkansas Baptist Orphans' Home, A. L. Owen, Pres., will open bids Mar. 4 for erection of 2 dormitories to cost \$100,000; fireproof, reinforced concrete, 40x80 ft., 3 stories, red brick wall 17" 1st story, 13" 2nd and 3rd story, tile roofing, cement and concrete flooring, rolling partitions; address Wiltenburg, Deloney & Watts, Archts., Little Rock, Ark. (Lately noted. See Machinery Wanted—Heating and Laundry Plant and Equipment.)

Fla., Daytona—Entrance Building—Coquina Highlands Co., Daytona Beach, has plans by D. J. Emery, R. G. Meredith, Engr., Daytona, for erection of entrance at Volusia Ave. State and Fifth St. approach; cost about \$20,000; 3 stories, 150 x 22 ft., concrete foundation, tile and hardwood flooring, Coquina Rock and steel construction, variegated tile roofing, interior tile, ornamental terra cotta; construction to start in 60 days by Coquina Highlands Construction Dept., Daytona; address Tri-City Investment Co., Daytona Beach, Fla.

Fla., Fort Lauderdale—J. A. Portwood and others plans to erect \$100,000 casino at Lauderdale beach; will include conventional hall, swimming pool, dance floor, etc. (Lately noted to be at Las Olas Beach.)

Fla., Oldsmar—Home—Warren M. Disalver, Gen. Mgr. Harry E. Pettyman Co., has made offer to I. O. O. F. in connection with \$100,000 home for widows and orphans of order and aged members; offer includes 80 acres of land on Memorial Highway, properly fenced, 2 wells drilled, \$250 worth of paint, \$5000 worth of lumber and all plans desired will be provided; J. C. Connolly, Jacksonville, Frank Helm, Orlando, and others are committee appointed by Odd Fellows to investigate site.

Fla., St. Petersburg—Mid-Continent Fire & Marine Insurance Co. of Chicago, Ill., Jno. D. Martin, organizer, present address St. Petersburg, contemplates erection of winter home for employes to be located on Boca Ciega Bay.

Fla., Stuart — A. P. Krueger plans to erect automobile salesroom, office and store building on site of present Central Garage and Little Dixie Cafeteria; upstairs there will be 20 rooms for use of transients; Southland Bond & Mortgage Co. are financing.

La., New Orleans — Jesuit Fathers have purchased Jack Sheehan's Suburban Garden and will establish retreat house for laymen; address Jos. P. Buckley, 140 Baronne St., New Orleans, President Board of Directors.

Md., Annapolis—Club House—Geo. W. Hoos, 308 S. Hanover St.; Chas. M. Brown, 524 N. Arlington Ave.; Jas. H. Preston, Munsey Bldg.; all Baltimore, and others are sponsoring erection of country club on Severn River near Annapolis; will have 9-hole golf course; contain wide verandas, ballroom, pool and billiard rooms, lounge, dining rooms, kitchen, locker rooms, showers and bath and boat-houses on beach.

Miss., Hattiesburg — George S. Hurst contemplates work to start soon on erection of dancing pavilion and bath house on Leaf River at foot of Boule St.; 76-room bath-house, 2 showers, 43½x42 ft.

Mo., Springfield—Len Walker, President Board of Directors, Children's Home, is having plans prepared by Geo. F. Reed, Woodruff Bldg., Springfield, for erection of \$25,000 addition to Home; will house dormitory, nursery and isolation ward; concrete trimmed in stone; heating plant will soon be installed.

Okla., Holdenville—Country Club contemplates rebuilding; electric plant will be installed; new building erected; present structure moved to high grounds and rebuilt; R. H. Allen, caretaker, has charge of work.

Okla., Oklahoma City—Grandstand—Oklahoma City Baseball Club, Jack Holland, Pres., let contract to Campbell & Price, Oklahoma City, to erect grandstand to seat 7500 persons and prepare playing field at Fourth and Pennsylvania Sts.; Leonard Bailey, Archt., Oklahoma City.

S. C., Laurens—Boise Terre Country Club, Board of Directors, plan to rebuild burned building in immediate future.

Tenn., Columbia—Barn—Lovell & Turner contemplate erection of mule barn with capacity of 1000 head of mules; construction probably in early spring. (Lately noted—destroyed by fire.)

Tex., Kenedy—Kenedy Country Club, J. B. Cannon, Pres., will build 9-hole golf course and erect clubhouse to cost \$12,500, on 60-acre tract.

Tex., Sherman—Funeral Home and Garage—John C. Dannel will erect \$25,000 funeral home and garage at Jones and Walnut Sts.; 2 stories, brick veneer.

Tex., Waco—Board of Trustees of Metho-

dist Orphans' Home, Dr. J. W. Torbett, Chmn., will soon receive bids for erection of 3-story wing to present chapel and school building and a cottage; cost \$50,000; cottage 2 stories, brick and cement, wood flooring, concrete foundation, 100x32 ft., tile roof; Milton W. Scott, Archt., Waco, Tex. (Lately noted.)

Railway Stations, Sheds, Etc.

Ala., Hurricane—Louisville & Nashville Ry. Co., W. H. Courtney, Ch. Engr., Louisville, Ky., is remodeling passenger station; platforms being built; and waiting room divided into two portions.

La., Jeanerette—Southern Pacific Lines, R. C. Watkins, Vice-Pres. and Gen. Mgr., New Orleans, expect construction to start in 90 days on depot to cost \$50,000; track connection will cost \$10,000.

Tex., Cleburne—Gulf, Colorado & Santa Fe Ry. Co., F. Merritt, Ch. Engr., Galveston, Tex., is reported to plan \$3,000,000 expenditure for improvements and extension; plans include railroad station, extensions to shops and installation of machinery.

Schools

Ala., Attalla—Board of Education, T. S. Williams, Sec., will hold election Feb. 11 to vote on \$30,000 bond issue for erection of addition to grammar school building and repairs to present building; 1-story, brick and concrete, wood flooring, plaster board, cement foundation, composition or sheet iron roofing, 8 additional rooms; Archt. not selected. (Lately noted.)

Ala., Birmingham—Alabama Negro School for the Deaf and Blind will open bids Feb. 9th, for erection of superintendent's residence, 2-story, brick veneer, alterations to main building, with new plumbing, heating, and sewerage disposal plants; Warren, Knight & Davis, Archts., Empire Bldg., Birmingham, Ala.

Ark., Little Rock—School Board contemplates expenditure of \$200,000 for school buildings and equipment; plans include 12-room, 3-story annex to high school; 2 grammar schools at Levy and Eighteenth Sts., both 8 rooms and basement; 2 four-room buildings at Park Hill and Rose City; remodel 4-room and basement building of Riverside school; H. Ray Burkes, Archt., Little Rock.

Ark., Pine Bluff — Seven school districts in southeastern section of Jefferson County; plan to erect central high school building; Spring, Niven, Talgeeda and Whiteville Townships are included.

Fla., Gainesville—Board of Trustees, Pres. A. A. Murphree, Dr. A. W. Sweet and others, have approved plans and specifications for \$125,000 DeMolay dormitory to be erected at University of Florida; 100x140 ft., 3 stories, hollow tile, cement stucco, brick, steel post, beams, interior tile, metal doors, wire glass, concrete foundation, tile roof, ornamental art stone, wood, tile and composition floors, vapor system heat, 1 hand freight elevator, 1 dumb waiter, 25 baths, Mark & Sheffall, Archts., Clark Bldg., Jacksonville, Fla. Bids will be opened Feb. 16. (Lately noted.)

Ga., Duluth—Gwinnett County Board of Education, Heard Summerour, Sec., Lawrenceville, has plans by Wm. J. J. Chase, Archt., American Savings Bank Bldg., Atlanta, Ga., for erection of 1-story school building. (Archt. lately noted at Savannah, Ga.)

Ga., Rome—Floyd County Board of Education is reported to contemplate rebuilding high school building recently destroyed by fire, may call bond election. (Lately noted—loss \$42,000).

Ga., Scottdale—De Kalb County Board of Education, Decatur, Ga., is having plans prepared by Wm. J. J. Chase, American Savings Bank Bldg., Atlanta, Ga., for erection of 1-story school buildings at Scottdale and Ingleside. (Archt. lately noted at Savannah, Ga.)

La., Baton Rouge—Louisiana State University, R. L. Himes, Sec. Building Comm., will open bids Feb. 15 for erection of sugar house; plans and specifications may be had from C. V. Link, Archt., Baton Rouge, or may be seen at Contractors & Builders Exchange, New Orleans, and Chamber of Commerce, Baton Rouge.

La., Lake Charles—School Board, Pres. Jacobs, has purchased site bounded by Kirkman, Mill, Ford and Division Sts., as site for junior high school building; 200x400 ft.; plans and specifications for building and improving campus, were made by L. E. White, Landscape Architect, Lafayette, La.

La., Donaldsonville — Ascension Parish School Board selected W. R. Burke, New Orleans, La., to prepare plans for erection of school building to cost \$60,000; also authorized to prepare plans for alterations and repairs to schools at Burnside, Smoke Bend, Brusley and Sacramento at total cost of \$40,000.

Miss., Jackson — Tougaloo College contemplates erection of \$50,000 brick building; auditorium to seat 500; 1-story; "H" shaped; 4 units extending out from front and rear will be for laboratory, library and class rooms; outside porches and corridors; Emmitt & Schutt, Archts., Jackson, Miss.

Mo., St. Charles — Monsignor F. X. Williams plans to erect St. Peter's Catholic School to cost \$60,000; 2 stories, 8 class rooms.

N. C., Asheville—Buncombe County Board of Education, Frank L. Wells, Supt., rejected all bids for construction of school in Sand Hill Consolidated School District; T. E. Davis, Archt., 20½ Spruce St., Asheville. (Lately noted.)

N. C., Asheville—Buncombe County Board of Education plans to sell \$50,000 bonds for erection of school building at Hawk Creek.

N. C., Asheville—No. 2 Township of Buncombe County voted \$30,000 bond issue for erection of school building in Conetoe; address Buncombe County Board of Education, Asheville.

N. C., Bethania—Forsyth County Board of Education, Prof. T. H. Cash, Supt., Winston-Salem, will open bids Feb. 18th, for erection of Old Town school 1 mile south of Bethania; plans and specifications may be secured from W. C. Northup, Archt., Winston-Salem, N. C.

N. C., Charlotte—Mecklenburg County Board of Education, Plummer Stewart, Chmn., plans to erect 6-room school house to take care of Thomasboro-Camp Greene section of Charlotte township.

N. C., Charlotte—City Commissioners will probably call election May 6, to vote on \$1,000,000 bond issue for school purposes; address H. P. Harding, Supt. Schools. (Lately noted.)

N. C., Clayton — Clayton voted \$150,000 bond issue for school buildings; address H. B. Marrow, County Supt. on Public Instruction, Smithfield, N. C.

N. C., Everetts—Martin County Board of Education, K. B. Crawford, Chmn., Williams, will open bids Feb. 22 for erecting and heating school building.

N. C., Flat Rock—Henderson County will call election in March to vote on \$30,000

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned

bond issue for erection of school building; address Henderson County Board of Education, Hendersonville, N. C.

N. C., Rocky Mount—Board of Trustees of Eastern Carolina Training School for Boys, J. C. Braswell and R. T. Fountain, Rocky Mount, S. C. Sitterson, Kinston, and others, will soon hold meeting to consider plans and site for erection of school.

N. C., Troy — Troy Township, Montgomery County, voted for erection of \$65,000 high school building; site selected and J. M. Kennedy, Archt., Raleigh, is preparing for contract to be let by March; auditorium to seat 1100. Address Montgomery County Board of Education, Troy.

Okla., Hominy—City voted \$70,000 bond issue for erection of junior high school building. Address School Board.

Okla., Fairfax—Osage County Board of Education, Pawhuska, is having plans prepared by Edw. Louis Gahl, 409 S. W. National Bank Bldg., Oklahoma City, for erection of high school building; 133x62 ft., 2 stories, 2 class rooms and gymnasium, brick, stone and reinforced concrete, vacuum heating, metal partitions, composition roof, steel lockers and sash; plans about March. City voted \$78,000 bond issue.

Okla., Muskogee—Board of Education, R. J. Tighe, Supt., plan to erect 31 additional class rooms to cost \$150,000; may hold bond election.

Okla., Tulsa—School Board, Frank Duncan, Chmn. Building Comm., will hold election Feb. 19, to vote on \$2,000,000 bond issue; about \$1,500,000 will be expended on converting Horace Mann, Osage, and Eugene Field schools into junior high school buildings and erect 2 junior high schools in northeastern and south-eastern sections of city; other \$500,000 will be expended on improvements to present grade school buildings. (Lately noted.)

S. C., Gaffney—Building Committee of Limestone College, W. C. Hamrick, Chmn., will open bids Mar. 18 for erection of Hamrick Hall of Science, Carroll School of Fine Arts, and President's Home; plans and specifications may be seen at office of Wilson, Berryman & Kennedy, Archts., Columbia, S. C., and Wilson and Gastonia, N. C.; Builders' Exchanges, Columbia, S. C., and Atlanta, Ga.; Chambers of Commerce, Charlotte and Greensboro, N. C.; E. S. Draper, Landscape Archt., Charlotte, N. C. (Lately noted.)

S. C., Greenwood—Lander College, B. R. Turnipseed, Pres., contemplate erection of \$75,000 dormitory; will contain 50 rooms, 3 stories, granite foundation; contract will be let last of Feb.; brick construction. (Lately noted.)

S. C., Newberry—Board of Trustees of Newberry College authorized erection of dormitory, construction to begin Feb. 15; Smeltzer Hall will be repaired and renovated; gymnasium is also under consideration.

S. C., Spartanburg—School Board, Dr. Frank Evans, Supt., plan construction of grammar school and extension to high school building; contemplate bond issue.

S. C., Sumter—Board of Trustees, Sumter City Schools, J. A. Mood, Chmn., will open bids Mar. 11 for erection and equipment of Boys' High school, Girls' High school, Primary school and Negro school; separate bids on building construction, electrical work, plumbing, heating and ventilating; plans and specifications may be seen at office Wilson, Berryman & Kennedy, Archts., Columbia, S. C.; Builders Exchanges, Columbia, S. C., and Atlanta, Ga.; Chambers of Commerce, Charlotte and Greensboro, N. C. (Lately noted.)

Tenn., Chattanooga—SS. Peter and Paul's Catholic Church, Father Francis T. Sullivan has purchased Martin Home property on East Eighth St., and is reported to have plans for erection of school building to cost in excess of \$100,000; 100x200 ft.

Tenn., Englewood — City contemplate election of \$20,000 bonds for erection of school building. Address Mayor.

Tex., Austin—Texas Memorial Stadium Assn., is incorporated and is having plans prepared by Herbert M. Greene Co., Archts. and Engrs., North Texas Bldg., Dallas, for erection of Memorial Stadium at University of Texas; seating capacity of 50,000; reinforced concrete, ornamental towers of stucco on hollow tile with terra cotta or cast stone ornamentation; Spanish Renaissance type; cost \$450,000; H. J. L. Stark, Orange, Texas, will head campaign. (Lately noted.)

Tex., Big Spring—Howard County Board of Education will soon select Archt. for erection of addition to present high school; recently voted \$35,000 bond issue.

Tex., Fort Worth—School Board, W. M. Short, Pres., contemplate bond issue of not less than \$2,000,000 for school buildings and equipment.

Tex., Fort Worth—School Board, W. M. Short, Pres., will soon hold election to vote on \$2,000,000 for school buildings and equipment.

Tex., Greenville—Buleson College will soon select Architect to prepare plans for erection of administration building; will contain steam heat, laboratories for chemistry and physics classes and auditorium; old structure will be razed and some of material will probably be used.

Tex., Humble—City Commissioners will soon call election of \$100,000 bond issue for erection of school building.

Tex., Kirkland—City will hold election Feb. 23rd, to vote on \$35,000 bond issue for school improvements.

Tex., Lamesa—School Board, J. R. Lownie, Pres., selected Peters & Haynes, Lubbock, Tex., to prepare plans for erection of high school building; 3 stories, steam heat, brick, stone and reinforced concrete frame; will contain gymnasium, studies, auditorium, domestic science and agricultural department. (Lately noted—voted \$125,000 bond issue.)

Tex., Robstown—Robstown Independent School District defeated \$100,000 bond issue; W. A. Rosie, member School Trustees. (Lately noted.)

Tex., Sterling City—Board of Trustees, Malcolm Black, Sec., will open bids Feb. 21 for erection of school building; fireproof; center, 2 stories; wings, 1 story; concrete, stone, brick and tile; concrete foundation, 66x105 ft., hollow tile, metal ceilings, ventilators; R. S. Glenn, Cisco, Texas. (Lately noted.)

Tex., Tell—School Board will call election soon for voting \$30,000 bonds for erection of school building.

Va., Ballston—Arlington County Board of Education, Prof. Fletcher Kemp, Supt., Fort Meyer Heights, has selected site at corner Garrison and Cherry Valley Roads, near Ballston, for junior high school building for Arlington and Washington districts; cost over \$150,000.

Va., Charlottesville—Albemarle County Board of Education has plans by Chas. J. Calrow, Norfolk, Va., and will soon call for bids on erection of primary school building to cost \$275,000 at Gordon Ave. and Fourteenth St.

Va., Fort Meyer Heights—Arlington County Board of Education, Prof. Fletcher Kemp, Supt., will open bids Feb. 20, for

erection of unit of George Mason High School at Del Ray; will contain 12 rooms and auditorium.

Va., Hopewell—School Board contemplates erection of 2-story high school building; will contain 20 class rooms, auditorium 800 capacity, board of education offices, book room 12x25 ft., principal's office, library, laboratories, cafeteria, gymnasium, American history and ventilating plant, shop room in basement. (Lately noted—contemplate \$150,000 bond issue.)

Va., Woodlawn—Carroll County Board of Education, Hillsville, contemplate erection of school building to contain 6 or 8 rooms.

W. Va., Charleston—Charleston High School Stadium Corp., will soon select Architect for erection of concrete stands at Laidley Field.

W. Va., Institute—State Board of Control, Jas. S. Lakin, Pres., Charleston, opened bids for erection of building at West Virginia School for Colored Deaf and Blind; Miller & Devine, Grafton, Grafton, W. Va., was low bidder at \$66,312; 114 x 38 ft.; Wysong & Jones, Archts., Charleston, W. Va. (Previously noted.)

W. Va., Maggie—State Board of Control, Jas. S. Lakin, Pres., Charleston, opened bids for erection of West Virginia School, for Colored Boys; Spencer Brick Co., Spencer, W. Va., was low bidder at \$98,064; contract not awarded; cost about \$140,000; 138 x 45 ft., 3 stories and sub-basement; Theo. T. Sansbury, Archt., Parkersburg, W. Va. (Lately noted.)

W. Va., Mannington—Board of Education of District of Mannington, I. A. L. Thomas, Sec., will hold election Mar. 4th, of \$200,000 bond issue for purchasing site and erecting high school building; Frank Upman, Archt., Woodward Bldg., Washington, D. C.

W. Va., Morgantown—West Virginia University selected Osborn Engineering Co., 2848 Prospect Ave., S. E. Cleveland, Ohio, to prepare plans for erection of football stadium; may also get engineering contract.

Stores

Fla., Vero—O'Malley and Matt Muller have purchased lot and building on Seminole Ave., and plans to replace present structure with 2-story building; Spanish design.

Ga., Macon—Isaac Herdeman estate, owner of building on Second near Poplar Sts., formerly occupied by Taylor Furniture Co., plans to rebuild. (Lately noted—burned by fire.)

Ga., Macon—P. D. Willingham, owner of building on Second St. near Poplar, plans to rebuild. (Lately noted—burned by fire.)

Ky., Bluefield—Ulvah Coal Co. will erect \$15,000 store building to replace building burned; contract Feb. 15.

Ky., Hazard—W. M. Pursifull and others will erect \$40,000 business building; contract by Feb. 15.

Ky., Pikeville—J. W. Sword will erect \$25,000 business building; contract in 2 weeks.

Ky., Whitesburg—J. T. Whitaker, Blackey, Ky., will erect business building to cost \$10,000; contract at once.

La., Bastrop—Plans are in progress for rebuilding Charles Snyder Building, recently destroyed by fire.

La., Houma—M. Levy Co., owners of The Leader, contemplate \$20,000 expenditure for improving and enlarging.

Md., Baltimore—Frank L. Applestone, 2300 Tioga Place, contemplates erection of 4 stores, with apartments above on northwest corner Reisterstown Road and Woodland Ave.

Md., Baltimore—Henry W. Thomas contem-

plates erection of 6 buildings on east side Belair Road south of Brehms Lane; stores on ground floor, apartments above.

Mo., Kansas City — R. A. Street, 5818 Swope Parkway, has purchased northwest cor. Swope Parkway and Fifty-eighth St., and plans to erect shop building; 92x194 ft.

N. C., Kinston — George W. Wells, Harry Stallings and Cephas L. Stricklin are to finance a business building on Gordon St., between Heritage and Queen Sts.; 2 stories and cost \$20,000.

N. C., Shelby — A. P. Weathers has plans in progress by Louis H. Asbury, Charlotte, N. C., for erection of 2 brick store rooms with offices above; 28x100 ft. each, cement foundations, hardwood and concrete floors, steel sash and trim, wire glass, plate glass front, steam heat, cost \$20,000. (Lately noted.)

Tenn., Nashville — O. W. Thomas plans to erect three 1-story brick stores at 1900-02-04-06-08 Eighth Ave., south, to cost \$12,000.

Tex., Amherst — Halsell Land Co., Ewing Halsell, Pres., is reported to contemplate erection of block of brick store buildings to cost about \$300,000.

Tex., San Benito — E. J. Bohner will soon start erection of 1-story, brick and concrete store building, to cost \$12,000.

Tex., San Benito — W. E. Murphy & Co., expect construction to start soon on 2-story store building, brick and stone, reinforced concrete frame, cost \$18,000.

Va., Roanoke — Gilmer's Store, C. Gray Poinexter, Mgr., plans extensive improvements; front on Campbell Ave. will be moved back and racks in center of store will be removed; glass show cases will be installed extending back about 25 ft.

Va., South Boston — Edmundson Estate is having plans prepared for rebuilding Johnson Furniture Co. and Arch Street Grocery Co. (Lately noted—destroyed by fire, loss \$55,000).

W. Va., Charleston — Crane Company, 836 S. Michigan Ave., Chicago, Ill., contemplates erecting \$60,000 plumbers' supply and display building on Broad St.

W. Va., Charleston — Pugh Furniture, Ltd., has plans by Warne Tucker Patteson, Charleston, and will soon ask for bids on erection of 2-story addition; mill construction, brick walls, wood floors, cost \$50,000; composition roofing, 41x246 ft., concrete foundation; bids about Feb. 18.

Theatres

Fla., Bradentown — American Enterprises, Inc., Jno. K. Culver, Pres., 415-6 Munsey Bldg., Baltimore, Md., and Elliott W. Darling, Vice-pres., Bradentown, plans to erect theater building on South Side Manatee Ave., to cost \$60,000; 60x170 ft., 2 stories, Spanish type, hollow tile, stucco exterior; auditorium will seat not less than 1000, 110x54 ft.

Fla., South Jacksonville — Drollinger Theater Corp. has purchased site at Pine St. and Hendricks Ave., and expects work to start Feb. 15 on brick and cement theater building; will have store rooms on each side.

Fla., St. Petersburg — Clayton D. Buss, Easton, Pa., has purchased property on First Ave. and contemplates erection of theater to seat 1800; 80x200 ft.

Md., Hagerstown — George W. Bennethum interests, 6100 Columbia Ave., Philadelphia, Pa., are reported to contemplate erection of \$350,000 theatre.

Md., Pocomoke City — Frank P. Dryden contemplates erection of theater building on Front St. to seat from 700 to 1000 people.

S. C., Greenville — H. J. Haynesworth, A. G. Furman, Sr., and W. P. Conyers, contemplates erection of theater to seat 1500 and cost \$150,000 and a 5-story annex to Ottaray Hotel, on property occupied by Poinsett Club; total expenditure \$250,000; will be operated by Famous Players-Lasky Corp., 485 Fifth Ave., New York City.

Tex., Luling — J. P. Doss and associates are reported to contemplate erection of airdome theater on Main St.

Warehouses

Tenn., Chattanooga — Texas Company contemplates erection of warehouse on Central Ave. to cost \$20,000.

will erect 2-story office building and temporary warehouse for builders' supplies at Front and Walnut Sts. former 32 x 35 ft.; fuel and heating plant and offices on first floor, offices above; 2 vaults; latter 30 x 32 ft.; owners plans to erect permanent warehouse upon expiration of lease.

Tex., Kenedy — Newman Bros., Kenedy, has contract on cost plus basis for remodeling building occupied by Nickols National Bank; install new fixtures; total cost \$15,000 to \$18,000; Beverly W. Spillman, Archt., San Antonio, Tex.

Churches

Ala., Birmingham — First Christian Church let contract at \$200,000 to Smallman-Brice Construction Co., Birmingham, for erection of 3-story and basement building; first story fireproof, semi-fireproof above; 120 x 120 ft., concrete foundation, built-up roof, hollow and interior tile, concrete and hardwood floors, metal doors, ventilators, ornamental terra cotta, steel sash and trim, dumb waiter; heating, lighting and plumbing in general contract; Wm. Leslie Welton, Archt., American Trust Bldg., Birmingham. (Previously noted.)

Mo., St. Louis — University Presbyterian Church, 6158 Delmar Blvd., will erect \$20,000 addition; 2 stories, 48 x 72 ft., brick, asphalt shingle roof, steam heat; Geo. E. Smith, Archt., 5401 Murdoch St.; Wm. T. Smith & Son, Contrs., 4623 Macklind St., both St. Louis.

Okla., Marlow — Methodist Episcopal Church, South, Rev. N. U. Stout, Pastor, has begun construction of \$40,000 building Main and 5th Sts.; auditorium to seat 800; 66 classrooms in basement; banquet hall to seat 300.

S. C., Great Falls — Presbyterian Church let contract to Perkins Construction Co., Greenville, S. C., at \$30,000, for erection of brick and hollow tile building; 2 stories, concrete and brick foundation, slate roof; Chester Heating & Plumbing Co., Chester, S. C., heating and plumbing; Alfred D. Gilchrist, Archt., Rock Hill, S. C. (Lately noted.)

S. C., Greenville — Tabernacle Penecostal Church, Rev. Paul F. Beacham, Pastor, has begun construction of \$15,000 building on Runcombe St.; brick veneer and hollow tile; work being done by members of congregation.

Tex., Beaumont — First Baptist Church, John L. Keith, Chmn., Bldg. Comm., let contract to C. L. Hudgins, Fort Worth, Tex., for erection of concrete and brick main auditorium and Sunday school building, Broadway and Willow Sts.; cost about \$250,000, including fixtures, steam and gas heating and lighting, for which contracts will be awarded later; former 140 x 76 ft.; 2 stories; latter 140 x 52 ft., 3½ stories; stone trim, reinforced concrete foundation, concrete and wood floors, concrete and composition roof, hollow and interior tile, metal doors, ventilators, rolling partitions, wire glass; Banglebaugh & Barnes, Archts., Great Southern Bldg., Houston, Tex., and 1812 Medical Arts Bldg., Dallas, Tex. (Lately noted.)

Tex., San Antonio — Alamo Heights Methodist Church let contract at \$8500 to A. Vogel, San Antonio, for erection of first unit of \$40,000 building; J. Clyde Williams, Archt., Moore Bldg., San Antonio. (Lately noted.)

Tex., San Antonio — Utica Presbyterian Church, Rev. J. Stuart Pearce, Pastor, has begun excavation for \$50,000 mission type building, Woodlawn and Michigan Aves.; 60 x 103 ft., fireproof, plaster interior, stucco exterior; kitchen, assembly room, etc., in

BUILDING CONTRACTS AWARDED

Association and Fraternal

La., Jeanerette — Jeanerette Lodge No. 255, A. F. & A. M., let contract at \$22,000 to J. C. Corbin, Napoleonville, La., for erection of brick and wood joist lodge building; 2 stories, 38x75 ft., wood, concrete and tile floors, slate roof, hollow tile; Sam Stone, Jr., Archt., New Orleans, La.; steam heating, plumbing and lighting in general contract. (Lately noted.)

Tenn., Chattanooga — Chattanooga Masonic Temple, J. S. Fouche, Pres., let contract to Moudy & Co., Chattanooga, to remodel 4-story building, Cherry and E. 7th St.; new stone front. (Lately noted.)

Tex., Martindale — Ancient Free and Accepted Masons let contract to W. A. Velton, Lockhart, Tex., for erection of \$25,000 lodge building; 2 stories, brick and stone.

Tex., Houston — Grand United Order of Odd Fellows, Colored, let contract to C. K. Smith, Houston, for erection of \$280,000 state lodge building, Louisiana St. and Prairie Ave.; 5 stories and basement, reinforced concrete, roof garden; Sidney Pittman, Archt., Dallas, Tex. (Lately noted.)

Bank and Office

Ark., Morrilton — Scroggin Trust Co. let contract to J. H. Reddick, Fort Smith, Ark., for erection of \$200,000 bank building; steel frame faced with concrete and brick, 25 x 128 ft., 5 stories and basement, tile and concrete floors, concrete foundation, Barrett specification roof, hollow and interior tile, vaults, mail chutes, vault lights, ventilators, ornamental terra cotta, wire glass; heating and plumbing to Robinson Bros., Pine Bluff; 1 freight and 1 passenger elevator to Otis Elevator Co., New York City; Witt, Seibert & Halsey, Archts., Texarkana, Ark.-Tex.; no sub-bids desired. (Lately noted.)

Ky., Whitesburg — David Hays, care Hays Lumber Co., let contract to J. H. Gibson, Whitesburg, for erection of brick office building; 34 x 34 ft., 1½ stories, oak floors, stone foundation, asbestos; plans by Contr. (Lately noted.)

Okla., Tulsa — Skelly Oak Co., will erect 2 additional stories to 6-story Unity Bldg., 4th St. and Boulder Ave.; install 2 high-speed elevators; lower rooms on first floor to street level; cost \$199,000; W. H. Horster, Contr., Tulsa.

Tenn., Knoxville — A. H. Whisman, Contr.,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

basement; John Marriott, Archt., San Antonio. (Previously noted).

City and County

Ala., Anniston—Vault & Offices—Calhoun County let contract to Scarborough & Dempsey, Jacksonville, Ala., for erection of \$33,000 one-story fireproof vault and offices for Judge of Probate; Lockwood, Poundstone & Billie, Archts., 1112 Wilmer Ave., Anniston. (Lately noted.)

Ark., Hamburg—Riley Feed Manufacturing Co., Pine Bluff, Ark., will furnish face brick and roofing for Ashley County courthouse under construction by T. R. Bethea, Fordyce, Ark.; Thompson & Harding, Archts., Little Rock, Ark. (Previously noted.)

Fla., Plant City—Dudley & Nulter have contract for erection of ball park to cost \$10,000.

La., New Orleans—Retaining Walls—Commission Council let contract at \$10,511 to Brogan Bros., New Orleans, for construction of reinforced concrete retaining walls at S. Broad and Callopie Sts. (Lately noted.)

Okla., Tulsa—Jail—City H. E. Newblock, Mayor, let contract at \$86,698 to J. W. Wilson, Tulsa, for erection of cut stone, brick and concrete jail, 4th and Elgin Sts.; F. A. Duggan, Archt., 202 Castle Bldg., Tulsa. (Lately noted.)

S. C., Spartanburg—Pavilion and Bath House—City, P. J. O. Smith, Engr., will erect brick and wood bath house and pavilion at Cleveland Park; cost \$12,427, 1-story, 64x84 ft., maple and concrete floors, composition shingle roof; city builds by day labor. (Lately noted.)

Dwellings

Ala., Greenville—W. H. Seale let contract to H. P. Jones, Greenville, for erection of \$10,000 frame residence on S. Park St.; foundation completed; 1 story, 37½ x 70 ft., oak and rift pine floors, composition 4-in. roof; heating and plumbing to Johnson Hardware Co., Greenville; electrical work, Reeves Electric Co.; Okel & Cooper, Archts., all Montgomery, Ala. (Lately noted.)

Ark., Pine Bluff—McGehee Realty Co. will start work at once on 6 frame dwellings for negroes in Fanny Brunson addition, owner builds.

Fla., Bradentown—P. C. Lounsberry will erect \$20,000 Colonial residence on E. Manatee Ave.; 2 stories, 68x88 ft., frame, 13 rooms and 4 baths; J. C. Walden, Contr., Bradentown.

Fla., Jacksonville—Dr. C. A. Peterson will erect \$15,000 residence, west side Edgewood St., near Oak St.; 2 stories, tile; Chas. J. Davis, Contr., Jacksonville.

Fla., Miami—First Bond & Mortgage Co. of America, 312-15 Congress Bldg., M. R. Howard, Pres., will erect 150 dwellings in Hialeah; 5 and 6 rooms and bath, stucco and hollow tile, screened porches; total cost \$400,000; J. W. Crouse, Contr., Miami.

Fla., Miami—D. O. Nay, Mgr., Miami Branch, National Biscuit Co., will erect \$12,000 Spanish type residence on N. E. 45th St., Biltmore sub-division; 2 stories, concrete block and stucco, ornamental iron, cut stone columns; garage and servants' room and bath in rear; E. L. Robertson and L. R. Patterson, Archts.; Mangham Construction Co., Contr., both Miami.

Fla., Plant City—Mrs. J. H. Kensett will erect \$15,000 residence; Fred Nulter, Contr., Plant City.

Fla., St. Petersburg—Mrs. Anna C. Henke! will erect \$12,000 Spanish type residence in Forest Hills; 10 rooms, hollow tile and stucco; construction began.

Fla., St. Petersburg—W. G. Marvin will erect \$20,000 Italian villa type residence, 77th St. and 3rd Ave., South, Pasadena, St. Petersburg; Sparklin & Snell, Archts.-Contrs., St. Petersburg.

Fla., St. Petersburg—W. Scott Serviss will erect \$25,000 residence on Villagrande Ave., Pasadena; Tudor type, 2 stories, 10 rooms brick construction, hot water heat, tile roof; owner builds; materials ordered.

Fla., St. Petersburg—Mrs. Mollie Tillotson will erect \$15,000 Spanish type residence in Eighty Acre section; Sparklin & Snell, Archts., St. Petersburg; construction begun.

Fla., Tampa—Casa Bella Co. will erect Spanish type residence on Grove Park Ave., Beach Park; Franklin O. Adams, Archt., Tampa; owner builds and will probably erect additional dwellings.

Fla., Tampa—Premier Building Co. will erect \$14,000 dwelling, Woodmere Rd. near West Shore Blvd., Beach Park; Franklin O. Adams, Archt., Tampa; owner builds and will probably erect additional dwellings.

La., Baton Rouge—Miss Myrtle Miller will erect residence on Golden Rod Ave., Roseland Terrace; construction begun.

La., New Orleans—Jas. Mattise will erect \$10,050 residence, Delgado Drive and Wilson Drive; John W. Hymel, Contr., New Orleans.

La., New Orleans—F. Norman will erect duplex dwelling, Carrollton Ave., and Short St.; cost about \$10,000, slate roof; J. F. Charlton, Archt.-Contr., New Orleans.

La., New Orleans—A. F. Peterson, 717 Nashville Ave., has completed foundations for 19 frame, stone and stucco dwellings; 1 and 2 stories, about 28 x 70 ft. to 34 x 86 ft.; oak, pine and concrete floors, composition roofs, hollow and interior tile, ventilators, ornamental terra cotta, wire glass; electrical work to R. J. Bains, 448 Magazine St.; plumbing to L. N. Raiser, 614 N. Rampart St.; Chas. Peterson, Archt., 717 Nashville Ave., all New Orleans. (Lately noted.)

Md., Baltimore—Geo. R. Morris Organization, Morris Bldg., will erect \$10,000 two-story frame cottage at 3900 Hadley Square, West; plans and construction by owner.

Md., Baltimore—John J. Dubbelde, 728 N. Howard St., will erect 10 two-story brick dwellings, S. E. cor. Ellamont St. and Gwynns Falls Parkway; total cost \$45,000; 20 x 34 ft., steam heat; Chas. T. McClure, Archt., 138 Cold Spring Ave., Baltimore; owner builds. (Lately noted.)

Md., Baltimore—City Real Estate Co., 11 E. Fayette St., let contract to Welsh Construction Co., 11 E. Fayette St., for erection of 17 brick dwellings, 713-45 Spring Hill Ave.; 2 stories, 19 x 30 ft., slag roofs; total cost \$50,000; Geo. Wessel, Archt., 3001 Lytleton Rd., Baltimore. (Lately noted.)

Md., Baltimore—Mary W. Hammon let contract to Henry T. Sorrell & Son, 4112 Kathland Ave., Baltimore, for erection of 2-story frame cottage, west side Cross Country Rd., south of North Ave., Mt. Washington, Baltimore; 32 x 44 ft., slate roof, hot water heat, cost \$10,000; plans by Contrs. (Lately noted.)

Md., Baltimore—Roy A. Boyd, 2923 Iona Terrace, has started construction of number of frame dwellings on Franklin Ave.; 2 stories, 8 rooms and bath, hardwood and pine floors, concrete and cement block foundation, asphalt roofs, hot air, hot water and steam heat; construction, including heating and plumbing, by owner, who plans to erect total of 60 dwellings during spring.

Md., Baltimore—Vernon F. Kelly, 405 Falls Rd., let contract to J. S. Small, Washington

St. and Rectory Rd., Mt. Washington, Baltimore, for erection of \$13,000 residence, north side Somerset Rd. east of University Pkwy.; 2½ stories, 26 x 37 ft., brick, slate roof, hot water heat; Edw. L. Palmer, Archt., 513 N. Charles St., Baltimore. (Lately noted.)

Md., Baltimore—Lohmuller Building Co., G. Lohmuller, Sec., 343-53 Calvert Bldg., will erect 4 1-family dwellings, west side Matthews St. south of 29th St.; owner builds.

Mo., Neosho—Fred Pickens, let contract to Roy G. Anderson to erect 6-room bungalow on St. John St.

Md., Baltimore—Palmer Development Co. will erect 15 two-story brick dwellings, 5102-18 and 5117-27 Palmer Ave.; 15 x 30 ft., slag roofs, furnace heat; total cost \$37,000; Geo. Wessel, Archt., 3001 Lytleton Rd., Baltimore; owner builds.

Mo., Clayton (Ind. Branch St. Louis)—E. O. Wells, 208 Fidelity Bldg., will erect 6 frame dwellings at Avalon Park, Maple Place total cost \$15,000; 28 x 28 ft. each; owner builds.

Mo., St. Louis—Advance Realty & Building Co., 5883 Page St., will erect \$10,000 tenement house, 5895 Nina Place; 2 stories, brick, 33x63 ft., gravel roof, furnace heat; Chas. W. Gorges, Archt., 5883 Page St.; owner builds.

Mo., St. Louis—Aleo Investment Co., 808 Chestnut St., will erect 2 brick tenements, 3216-18-24-26 Geyer St.; total cost \$18,000; 2 stories, 34x54 ft.; tar and gravel roofs, hot air heat; Oliver J. Popp, Archt., Odd Fellows Bldg.; V. A. Chinberg, Contr., 808 Chestnut St., both St. Louis.

Mo., St. Louis—Chas. Boehne, 3942 Palm St., will erect 2 two-story brick tenements, 4149 W and 4211 Margaretta St.; total cost \$18,000; 24x50 ft., asphalt shingle roofs, hot water heat; H. M. Finck, Archt., 4259 San Francisco St., St. Louis; owner builds.

Mo., St. Louis—Louis Fedder, 4229 Cleveland St., will erect 2 brick tenements, 3229-31 Minnesota St.; total cost \$18,000; 2 stories, 25 x 49 ft., composition roofs, hot air heat; F. Wehrle, Archt.-Contr., 3335 S. Jefferson St., St. Louis.

Mo., St. Louis—M. Scherer, 3108 Piedmont St., will erect 2 brick tenements, 4943-47 Walsh St.; total cost \$18,000; 2 stories, 25 x 49 ft., composition roofs, hot air heat; F. Wehrle, Archt.-Contr., 3335 S. Jefferson St., St. Louis.

Mo., St. Louis—Wm. Irwin, 4701 Morganford Rd., will erect 4 one-story dwellings, 5219-23-27-29 Gresham St.; total cost \$14,000; brick, 25x37 ft., composition shingle roofs, hot air heat; Sanders Bros., Contrs., 4454 Beethoven St., St. Louis.

Mo., St. Louis—Anna Kircher, 5822 Highland St., will erect 3 two-story tenements, 4832-42-46 Kossuth St.; total cost \$18,000; brick, 25x38 ft., tar and gravel roofs, hot air heat; Fred Kircher, Contr., 5822 Highland St.

Mo., St. Louis—Chas. I. Muerl, 3609 Hartford St., will erect 8 two-story brick tenements, 4101-05-07-11-15-19-23-27 Minnesota St.; 30x40 ft., 29x42 ft., and 30x35 ft.; all composition roofs, hot air heat; total cost \$40,000; Hy Schaumburg, Jr., Archt., 3631 Connecticut St., St. Louis; owner builds.

Mo., St. Louis—Mars Realty Co., International Life Bldg., will erect 4 brick tenements, 5561-67 and 5562-67 Palm St.; total cost \$28,000; 2 stories, 24x37 ft., composition roofs, hot air heat; H. H. Sims, Archt.-Contr., Usona Hotel, St. Louis.

Mo., St. Louis—M. W. Brown, 4820 Gano St., will erect \$10,000 brick tenement, 5334 Kings Highway; 2 stories, 20x54 ft., rubberoid

shingle roofs, furnace heat; C. B. Fornshee, Archt.-Contr., 4527 Natural Bridge St., St. Louis.

Mo., University City (Station St. Louis)—Geo. W. Everhardt, 4758 Labadie St., will erect \$10,000 residence, 7551 Washington Ave.; 1½ stories, 28x44 ft., brick, asphalt shingle roof, hot water heat; S. C. Duqua, Contr., 5279 Emerson St., St. Louis.

N. C., Kinston—Geo. W. Knott will erect \$15,000 two-story brick residence; Lella Ross Wilburn, Archt., 305 Peters Building, Atlanta, Ga.; G. E. Andrews, Contr., 417 Pollock St., Kinston.

S. C., Greenville—S. O. Shelton will erect 1 one-story and 1 two-story dwelling on Augusta St.; brick veneer; Cox & Hudgens, Contrs., Greenville.

S. C., Spartanburg—N. O. McDowell, 151 N. Church St., has 12 dwellings under construction and plans to erect total of 75 during year; dwellings to be 4 to 9 rooms each, 1 and 2 stories, hardwood, rift pine and concrete floors, red cedar shingle roofs, brick foundation, steel sash and trim; plans and construction by owner.

Tex., San Antonio—Francis L. Corrigan, 2511 Avenue B, let contract to W. F. Marx, care Builders Exchange, San Antonio, for erection of \$10,000 frame residence in Terrell Hills; 1 story, 35.6x57 ft., tile, oak and edge grain pine floors, shingle roof, foundation of cedar posts set in concrete, interior tile, plaster board; electrical work let to Wright Bros., 122 Broadway; plumbing to McNair Bros.; R. Vander Straten, Archt., 302 Hicks Bldg., all San Antonio; foundation begun. (Lately noted.)

Tex., Cleburne—John W. Floore has started construction of 2 dwellings at 225-27 Willingham St.

Tex., Houston—J. S. Pyeatt will erect \$31,000 residence in Broadacre; 2 stories, brick veneer; L. W. Lindsay, Contr., Houston.

Tex., San Antonio—W. T. Labatt let contract at \$26,695 to A. Vogel for erection of 2-story tile and stucco residence on Summit Place; plumbing to Jud & Ormand at \$1655; wiring, Braden-Hudson Co., \$418; Herbert S. Green, Archt., 2nd floor Alamo National Bank Bldg., all San Antonio. (Lately noted.)

Va., Danville—Patton, Temple & Williamson let contract to W. A. Nance, Danville, for erection of 3 dwellings on Marshall Terrace; total cost \$25,000; Heard & Chesterman, Archts., Danville.

Va., Richmond—Benedictine Military Academy let plumbing contract to Walet F. Mahoney, 523 Main St., Richmond, for \$38,000 residence for Rev. Father Bernard, 300 Shepard St., for which Southeastern Construction Co., Charlotte, N. C., has general contract; concrete foundation begun; building to be brick and reinforced concrete, 3 stories, 44x65 ft., cement and linoleum floors, tile roof; plans by Rev. Father Michael, Belmont, N. C. (Lately noted.)

Va., Richmond—Dr. J. Allison Hodges, 107 E. Franklin St., is awarding sub-contracts for erection of brick, stone and cinder block residence; cost \$40,000, 3 stories and basement, 46x98 ft., slate roof, metal ceilings, hardwood floors, interior tile; Lee & Lee, Archts., 918 E. Main St., Richmond; owner builds.

Va., Richmond—Kimbrough, McCarthy & Christian will erect 16 two-story brick dwellings, Rosewood and Maplewood Ave.; total cost \$104,000; E. L. Bass & Co., Contrs., Richmond.

W. Va., Martinsburg—D. C. James has contract to erect 10 dwellings on S. Kentucky

Ave.; 7 rooms, frame, composition roofs, porches; to sell for \$3500 each; work started.

W. Va., Richwood—C. B. Brooksmann, Supt., Cherry River Paper Co., will erect \$20,000 residence overlooking Park Place and Main St.; J. A. Tinscher, Contr., Richwood.

Hospitals, Sanitariums, Etc.

Tenn., Jackson—Crook Sanitarium, Dr. Jere L. Crook, Pres., let contract to E. G. Holladay Co., Nashville, Tenn., for erection of \$100,000 fireproof unit; 100 beds, 4 stories, including basement; joined to present building by 2 corridors; sun parlor; R. A. Heavner, Archt., Jackson. (Previously noted.)

Tex., Fort Worth—Methodist Hospital Board, Texas State Bank Bldg., Judge J. Erskine Williams, Chmn., Bldg. Comm., let contract to Jas T. Taylor at \$36,296 for building complete foundation for \$1,000,000 hospital to be erected on block bounded by Canon, Lake, 6th and Hornsby Sts.; build-to-be 9 stories, X-shape, 17,000 sq. ft. area, reinforced concrete, brick and stone, tile and tar and gravel roof, tile, rubber, terrazzo and linoleum floors, steam heat, electric wiring, 2 elevators and 5 dumb waiters; W. G. Clarkson & Co., Archts., First National Bank Bldg., Fort Worth; contract for remainder of building will be let upon completion of foundation. (Previously noted.)

Hotels and Apartments

Ala., Troy—Mrs. J. E. Harris has let contract to W. T. Ogletree, Troy, to erect 5-room duplex apartment on North Three Notch St.

Ala., Montgomery—Mose Scheuer, Scheuer Bros. & Co., awarded contract to Hugger Bros., Sheperd Bldg., Montgomery, at cost plus to rebuild building at 212 S. Lawrence St., into brick and frame apartment house; hardwood and rift flooring, brick foundation, composition roofing, 2 stories; hot air heat installed; Okely & Cooper, Archts., Bell Bldg., Montgomery, Ala. (Lately noted—burned by fire at \$20,000 loss.)

Fla., Miami—Mr. and Mrs. Frank S. Roberts contemplate erection of 24-apartment building at N. W. cor. S. E. First St. and Tenth Ave.; cost from \$90,000 to \$100,000; Al Simons, Contr., Miami Beach, Fla.

Ky., Owensboro—L. E. Whitely, 1548 Fred-erica St. desires bids on cold storage plant, metal ceilings, and 130 ft. marquee, in connection with 2-story addition to hotel; cost \$60,000; brick, stone and concrete; concrete foundation in; first floor terrazzo and second hardwood flooring; 62x133 ft., metal ceilings, plaster board, steel sash and trim, wire glass; T. H. May, Supt. of construction; work being let in detail; concrete, brick, steel and plumbing let; steam heat and conduit system heating not let; will install cafeteria and cold storage plant; J. W. Whitehead, Archt., Owensboro, Ky. (Lately noted.)

Mo., St. Louis—Herman Hess, 3665 Connecticut Ave., awarded contract to George Boughton, 6331 Clayton St., to erect 3-story apartment building at 5559-61-63-65-69 Maple Sts., to cost \$100,000; 105x125 ft., composition roof, steam heat; Contractor is Architect.

N. C., Lumberton—Lumberton Hotel Co., A. E. White, Pres., awarded contract to J. M. Lawton, Florence, S. C., at \$68,000, to erect 5-story addition to Loraine Hotel; 48 rooms and 5 stores, brick walls, wood joists, semi-fireproof, concrete foundation, rift pine concrete and tile flooring, Barrett roof, interior tile, mail chutes, vault lights, ventilators, ornamental terra cotta; Kirkman, Lumberton, heating and plumbing; W. J. Fortner, Florence, electric wiring; A. D. Asbury, Archt., Charlotte, N. C. (Lately noted.)

Tenn., Memphis—Southern Hotel Co., (W. T. Halliday and associates) awarded con-

tract to B. W. Construction Co., allied with B. W. Buttas Brothers Construction Co., 720 Cass St., Chicago, Ill., to construct foundation, and all concrete and masonry work, on Hotel Peabody; cost \$4,000,000; 324x170 ft., 12 stories, brick and terra cotta exterior, reinforced concrete construction, will contain over 600 rooms, gravel roof, cement and hardwood floors, plaster board, metal ceilings and doors, vaults, mail chutes, ventilators, ornamental terra cotta, steel sash and trim, wire glass, low pressure steam heat, direct current, 3-200 K. W. generators, electric elevators; Olson Brothers, 6901 Euclid Ave., carpentry work, with sub-contract to Cole Mfg. Co., Memphis, for millwork; Northwestern Terra Cotta Co., 2525 Clyb Ave., terra cotta work; Burson Brothers, 3231 Cottage Grove Ave., plastering; Chicago Marble Co., art marble for floors, wainscoting, basses and similar work; U. S. Gypsum Co., 205 W. Monroe St., partitions; all Chicago, Ill.; Alabama Marble Co., Birmingham, marble work including floors, wainscoting and like; Sanborn Electrical Co., Indianapolis, Ind., electrical work and wiring; Wisconsin Iron & Wire Works, Milwaukee, Wis., ornamental iron work including structural iron, fire escapes, metal stairs, sheet metal, etc.; Central Mosaic Marble & Tile Co., Memphis, tile for bath rooms, floors, etc.; Walter W. Ahlschlaeger, Archt., 65 Huron St., Chicago, Ill. (Lately noted.)

Tex., Brownville—Mrs. Chas. Moore awarded contract to J. C. Diehlmann & Co., San Antonio, at \$50,500, to erect addition to Travelers Hotel; 6 stories, brick, stone and reinforced concrete; fireproof, concrete basement steam heat, 3 elevators; W. H. Putegnat Co., Inc., Brownville, was awarded plumbing, heating, electrical and fire line contracts at \$6612.72, \$7157.40, \$1901, \$557.15; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., San Antonio, Tex. (Lately noted.)

Tex., Fort Worth—Salvation Army awarded contract to W. A. Johnson, San Antonio, Tex., to remodel building; when completed will have 100 rooms, 4-story and basement; cost about \$30,000.

Tex., Greenville—A. A. Duncan awarded contract to C. J. Fry, Greenville, at \$8500, to erect 4-apartment building at Henry and Wesley Sts.; 4 rooms and bath each; brick veneer, 2 stories, 38 x 57 ft., oak flooring, concrete foundation, metal tile roofing; Archie Smith, plumbing; Lindsey & Kilmer, Archts.; both Greenville. (Lately noted.)

Miscellaneous

Tex., Houston—Henry Hencke awarded contract to Russell Brothers, Houston, at \$87,999, to erect 3-story building.

Railway Stations, Sheds, Etc.

La., New Orleans—Louisville & Nashville Ry. Co., W. H. Courtney, Ch. Engr., Louisville, Ky., awarded contract to Doullut & Williams Co., Inc., 816 Howard Ave., New Orleans, at \$429,000 to erect concrete and steel storage warehouse on New St. between Calliope and Julia Sts.; 2 story, 900x500 ft.; Lukens Steel Co., structural steel; Ole K. Olsen, reinforced steel; both New Orleans; Detroit Steel Products Co., H-2248 E. Grand Blvd., Detroit, Mich., steel sash; J. G. Wilson Corp., 11 East 36th St., New York City, rolling doors; Pittsburgh Plate Glass Co., Frick Bldg., Pittsburgh, Pa., glazing; Wm. F. Kihnel, roofing. (Lately noted.)

Schools

Fla., St. Petersburg—M. T. Terranova has started work of constructing Pasadena College on Pasadena Estates facing Boca Ceiga Bay; Edgar Ferdon, Archt., St. Petersburg. (Lately noted.)

La., Baton Rouge—Louisiana State University, R. L. Himes, Sec., awarded contract to Michaels & Co., Inc., Norfolk, Va., at \$1395, for installation of electric wiring and chimes in Memorial Campanile. (Lately noted—general contract awarded to Caldwell Bros., 816 Howard Ave., New Orleans, at \$85,000.)

La., Sibley—Webster Parish School District No. 10 voted school tax for erection of 9-room brick school building to cost about \$65,000; will be built by day labor under supervision of H. H. Rowland; E. F. Neild, Archt., Shreveport, La.

N. C., Hickory—School Board, R. W. Carver, Supt. awarded contract to Jewell, Riddle & Co., Sanford, N. C. at \$177,791.50, to erect Claremont High School; 240x114 ft., 3 stories; maple, gum and composition flooring; concrete foundation, composition roofing, brick exterior, frame and tile interior, hollow tile, plaster board, metal doors, vaults, ventilators, ornamental terra cotta, steel sash and trim, semi-fireproof, "H" shape, will contain 24 academic and administrative rooms in central portion with auditorium and home economics department in one wing and gymnasium and shops in other wing; American Heating & Ventilating Co., Raleigh, N. C., warm air system of heating and ventilating at \$18,300 Jas. C. Shuford Co., Hickory, N. C., plumbing and sewerage work, \$9645; contract for electric wiring not let; C. Gadsden Sayre, Archt., Anderson, S. C. and Raleigh, N. C. (Lately noted.)

N. C., Lexington—Board of Directors awarded contract to C. M. Ward and A. L. Curry, Lexington, at \$59,835.39, to erect Lexington District High School auditorium and gymnasium; auditorium to seat 1200 including balcony and arena; stage and dressing rooms; gymnasium will contain shower baths and dressing rooms; Harry Barton, Archt., Greensboro, N. C.

N. C., Sunbury—Gates County Board of Education, J. M. Glenn, Supt., Gatesville, N. C., awarded contract to Byrum Construction Co., Oxford, N. C., at \$31,500, to erect 1-story brick school building; 15 rooms and auditorium, hardwood floors, slate roof, brick foundation, hollow tile, ventilators, low pressure steam heat; Linthicum & Linthicum, Archts., Raleigh, N. C. (Lately noted.)

S. C., Kingstree—Trustee Kingstree School District, Dr. D. P. Frierson, Chmn., awarded contract to Stuckey & Haynesworth, Florence, S. C. at \$44,000, to erect brick high school (for whites); also awarded contract to W. H. Sawyer, Scranton, S. C., to erect school (colored) brick and frame, stone trim, Barrett roofing, wood and cement flooring, heating and plumbing to be let later; W. D. Harper, Archt., Florence, S. C. (Lately noted.)

Tenn., Tullahoma—Grand Lodge, Knights of Pythians of Tennessee, W. M. Cameron, Chmn. Board of Trustees (Ovaca), Tullahoma, awarded contract to A. Y. Bailey, Chapel Hill, Tenn., to erect Fox Memorial Building at Ovaca, near Tullahoma; separate

bids for plumbing, heating and wiring; R. H. Hunt Co., Archts., James Bldg., Chattanooga, and Dallas, Texas. (Lately noted.)

W. Va., Triadelphia—Board of Education of Triadelphia District, S. S. Jacobs, Sec., Elm Grove, awarded contract to Vincent Vercellotti, at \$57,451.70, to erect school building at Mt. De Chantal; 2 stories and basement; concrete foundation, tile and brick construction, hollow tile, metal ceilings, hardwood and concrete floors, ventilators; Giesey & Dayton, Archts., Wheeling, W. Va. (Lately noted.)

Tex., Dallas—Southern Methodist University, Sec., Exes. Comm., awarded contract to Bellows-Maclay Construction Co., Dallas; cost \$130,000; 3 stories; brick, stone and reinforced concrete; Georgian design; DeWitt & Lemmon, Archts., Dallas. (Lately noted.)

Tex., Vernon—Independent School District, A. F. Winston, Sec., awarded contract to S. P. Hughes, Oklahoma City, Okla., at \$85,000 to erect high school building; 200 x150 ft., 2 stories, concrete foundation, maple cement and concrete flooring, brick and tile construction, Barrett and tile roofing, steel sash and trim, steam heat, wire glass; Hampton Metal & Plumbing Co., Vernon, Warren-Webster vapor system heating, lavatories, closets, urinals, etc.; electric wiring in general contract; Guy A. Carlander, Archt., 15 Massie Bldg., Amarillo, Texas. (Lately noted.)

W. Va., Huntington—Board of Education, Huntington Independent School District, Jno. G. Graham, Supt., awarded contract to Spencer Brick Co., Spencer, W. Va., at 120,194 to erect Douglass High and Junior High School building on Tenth Ave. near 16th St.; J. A. Castle Electric Co., electric wiring at \$1998; International Time Clock Co., installation of electric clock system at \$1191.41; 14 classrooms, domestic science and art rooms, gymnasium and auditorium; Wm. F. Diehl, Archt., 617 Robson-Pritchard Bldg., Huntington. (Lately noted.)

Stores

Ark., Pine Bluff—Gould-Galbraith Supply Co. will begin construction of building at Pine and Fifth Sts. at once; brick construction, fire and weatherproof; manganese gray brick, Portland cement, Johns-Manville standard asbestos base roofing, Texas cement plaster from Riley Feed Mfg. Co., and Standard Lumber Co., is manufacturing millwork and furnish all lumber; both Pine Bluff; first floor for stores and second offices. (Lately noted.)

Fla., Stuart—F. Van Smith let contract to S. W. Hind & Co., Stuart, to erect 2-story store and apartment building on lots west of Harrison Cafe; Southland Bond & Mortgage Co., Stuart, are financing.

Ky., Cornettsville—James & Estill Riddle will erect 2-story store to cost \$10,000; tar roofing, hardwood floors, brick foundation, plaster board; construction by James Estill. (Lately noted.)

La., Alexandria—J. F. Ball awarded contract to S. J. Rockhold at \$15,400, to erect 2-story brick business bldg.; E. Leo Ball, Archt., Alexandria, La.

La., New Orleans—Saenger Amusement Co. awarded contract to R. P. Farnsworth, Canal-Commercial Bldg., New Orleans, to erect \$55,000 arcade building at Canal, Iberville and Rampart Sts.; Emile Weil, Archt., New Orleans.

La., Ruston—B. F. McLure awarded contract for erection of 2-story brick business building on East Mississippi Ave.; 50x125 ft., plate glass front.

Md., Baltimore—Mans Swartz, 225 N. Howard St. awarded contract to David M. Andrew Co., Sisson and 26th Sts., N. Baltimore, for erection of 4-story, stone and brick; first 2 stories for stores other offices; cost \$75,000; Otis elevator; hollow tile; composition floors; Theo. Wells Pietsch, American Bldg., Baltimore. (Lately noted.)

Mo., Cape Girardeau—Wm. H. Vedder let contract to Linus Penzel, Jackson, Mo., to erect 2-story brick store building; 31.5x100 ft., composition roofing, concrete foundation, metal ceilings; construction March 15 (Lately noted.)

Mo., St. Louis—J. H. Gebken Livery & Undertaking Co., 2842 Meramec St., let contract to Kloster & Co., 4442 Virginia St., to erect 1-story store and chapel building at 2700-8 Texas and 2624-26-28 Gravois St., to cost \$20,000; 75x113 ft., composition, tar and gravel roof, hot water heat; Adolph A. Stauder, Archt., 6032 S. Kingshighway.

Tenn., Knoxville—I. O. O. F. contemplate erection of home on King St. and Emory Place; first floor will contain store room; second for jobbing firms; third occupied by lodge; Chas. L. Hencke, Contractor, will have charge of work; R. F. Graf & Sons, Knoxville. Bids opened Feb. 10.

Tenn., Memphis—Landres Company, Geo. Landres, 88 So. Main St., contemplate extensive remodeling; cost \$15,000; will include deepening of display windows and re-arrangement on interior of grade floor; frontage of 42 ft. will be show windows with mirrored walls and plate glass exterior; Semple & Logan, Contr., Memphis.

Tex., Brenham—Pink Brothers awarded contract to B. W. Whitmarsh for brick work and Nicholson & Robertson, remainder of work, on 1-story brick building; plate glass front.

Tex., Galveston—F. P. Malloy & Son awarded contract to M. C. Bowden, Galveston, at \$31,127, to erect 3-story, reinforced concrete and brick store building at 24th St. and Avenue E.

Tex., Sherman—Walter C. Jones & Co., awarded contract to Jerry Wall, Sherman, to erect brick business building on Walnut and Pecan Sts., will be occupied by L. and S. L. Phillips.

Theatres

N. C., Roxboro—John F. Reams, Contr., Roxboro, has contract at \$25,000 for erection of Palace Theater; G. Murray Nelson, Archt., Raleigh, N. C.

Warehouses

D. C., Washington—R. P. Andrews Paper Co., awarded contract to R. P. Whitty's Co., Washington, D. C., at \$80,000 to erect 3-story fireproof warehouse at Canal and A Sts., S. E.; slate roof, 50x300x45 ft., concrete flooring, concrete foundation; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham, N. C.

Mo., St. Louis—Wm. J. Mendenhall, 2315 Locust St., awarded contract to Thos. A. O'Keefe, 2112 Pine St., to erect 4-story building for storage for automobiles, to cost \$70,000; 36x155 ft., reinforced concrete roof; Wm. P. McMahon, Archt., 300 Title Guarantee Bldg., St. Louis.

Va., Norfolk—Barton Myers, Chmn. Port Commission, awarded contract to R. R. Richardson & Co., Norfolk, at \$359,200 to erect 2 municipal warehouses at Sewells Point; reinforced concrete, 1 story, sprinkler system. (Lately noted.)

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Air Compressors, etc.—Thos. Chas. Williams, 8 E. Lexington St., Baltimore, Md.—Small air compressor with gasoline engine about $\frac{3}{4}$ or 1 h. p.; also paint spray gun or air brush.

Air Spray Painting Device.—See Air Compressor.

Angles.—See I Beams, etc.

Automobile Accessories.—Robertson & McHone Co., Lackey, Ky.—Automobile accessories of all kinds, oils, gasoline, and other supplies incidental for making repairs.

Auto Accessory Shop Equipment.—J. Henry Schlahe Auto Supply Co., Inc., 11th & Columbia Sts., Newport, Ky.—Prices on show cases and all necessary equipment for auto supply stores, also for battery work and vulcanizing.

Automobile Supplies.—Baldwin Motor Co., Tyler, Tex.—To purchase supplies for automobile distributors and service station.

Automatic Telephone Equipment.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until March 4 to furnish automatic telephone equipment. Blank forms and information (Circular 1598) at offices of Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco, Calif.

Automobile Truck.—Charles H. Moorefield, State Highway Engr., Greenville, S. C.—Bids until Feb. 15 to furnish 10 new Standard low-speed Ford truck chassis, 1924 model complete in every respect, ready for operation, filled with gasoline and oil, equipped with fabric tires on front wheels and cord tires on rear wheels, 1 cu. yd. capacity wooden dump bodies and plain box seats with cushions; bodies to be built of seasoned oak lumber not less than 1-in. thick with ship-lap joints, so mounted as to be operated by one man; send description and cut of body.

Axe Helves.—See Farm Equipment.

Band Saw.—See Woodworking Machinery.

Batteries.—See Auto and Accessory Shop

Belting.—Arkansas Brick & Tile Co., Little Rock, Ark.—Prices on belting.

Boiler.—Dickson Raincoat Co., Inc., E. L. Rice, Mgr., Dickson, Tenn.—In market for 60 h.p. return tubular boiler with 50 ft. stack.

Boilers.—Greene County Creamery, Inc., Standardsville, Va.—Prices on 12-h.p. return tubular boiler.

Bottles and Cartons.—Laurel Co., P. O. Box 167, Charleston, W. Va.—Prices on 12 oz. round dark bottle in gross lots, also an attractive label for certain chemical products; cases and fillers to hold one dozen such bottles.

Brick Making Machinery.—Arkansas Brick & Tile Co., Little Rock, Ark.—Prices on brick machinery.

Bridges.—State Road Dept., Tallahassee, Fla., will build 3 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Dept., Jefferson City, Mo., will build 5 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Date County, Miami, Fla.—Details under Construction News—Bridges, Culverts, Viaducts.

Bridges.—State Highway Dept., Jefferson City, Mo., will build 8 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Lee County, Bishopville, S. C., will build 3 bridges. Details under Construction News—Road and Street Construction.

Bridge.—Trinity County, Trinity, Tex.—Details under Construction News—Bridges, Culverts, Viaducts.

Builders and Contractors Equipment.—Yadkin Construction Co., Inc., Albemarle, N. C.—Prices on machinery for construction of concrete buildings, bridges and brick and stone structures.

Building Material Catalogs.—Grier-Lowrance Construction Co. (Conrs. and Engr.) Statesville, N. C.—Catalogs and hand-books on various classes of tile, steel, brick, lumber, cement, etc.

Building Materials.—Thos. Chas. Williams, 8 E. Lexington St., Baltimore, Md.—Roofing; doors; sash; dressed lumber; concrete blocks; nails; paint; hardware for 100 small frame houses.

Building Material.—Jes. Stewart & Co., Inc., 402 Keyser Bldg., Baltimore, Md., is estimating on construction of Royal Italian Embassy, 16th and Fuller Sts., Washington, D. C., and desires estimates until Feb. 11 on all work, including alternates.

Button Hole Machine.—Dixie Furniture Co., Scotland Neck, N. C.—To purchase button hole machine; correspond with manufacturers.

Cartons.—See Bottles and Cartons.

Catalogs (Plaster Industry).—Gyp Valley Plaster Co., Fairmont, Okla.—Catalogs and textbooks on the plaster industry.

Clock (Watchmans).—High Point Furniture Co., High Point, N. C.—Prices on twelve key watchman's clock.

Compressor.—Peninsular Brick Co., Salisbury, Md.—To purchase 20 x 10-in. compressor, belt driven, low pressure and tank for same.

Concrete Blocks.—See Building Materials.

Conveying Equipment.—See Unloading and Conveying.

Conveyor or Stacker.—See Freight Handling Equipment.

Corliss Engine.—Henderson Waits Lumber Co., Caryville, Fla.—To purchase 24x48 rolling type Corliss engine, heavy duty; must be in first class condition; wire specification price and shipping point.

Cotton Ties.—J. A. Drake, Bennettsville, S. C.—To correspond with manufacturers of cotton ties.

Crane (Electric).—Atlas Iron Works, Geraldine and Slevin Aves., St. Louis, Mo.—To purchase used electrical crane, from 50 to 70 ft. span, carrying 5 to 10 tons, alternating current, 3 phase, 60 cycle, 220 volts.

Crane (Locomotive).—See Freight Handling Equipment.

Culverts.—Chesterfield County, Chesterfield, S. C., will build 2 culverts. Details under Construction News—Bridges, Culverts, Viaducts.

Disc Sanders.—See Woodworking Machinery.

Disintegrators.—Arkansas Brick & Tile Co., Little Rock, Ark.—Prices on disintegrators.

Doors.—See Building Materials

Dowel Machines.—Macklock Lumber Co., Box 81, Buchanan, Va.—Machine for making small dowels not to exceed 1-in. diam. and 18-in. long, automatic machine preferred.

Dredging.—Interstate Investment Co.,

Tampa, Fla.—Receives bids until Feb. 18 to remove approximately 130,000 yds. sand, clay and rock in Tampa harbor.

Dredging.—U. S. Engineers Office, Galveston, Tex.—Bids until March 3 to dredge Sabine-Neches Waterway.

Dredging.—U. S. Engineer Office, 13th Floor, Custom House, Boston, Mass.—Bids until Feb. 25 for dredging in Plymouth Harbor, Mass.

Dry Kiln Equipment.—Mills & Lupton Supply Co., 1146 Market St., Chattanooga, Tenn.—To purchase dry kiln equipment.

Electric Wiring.—Byrum Construction Co., Inc., Oxford, N. C.—Bids on electric wiring for two schools.

Electrical Equipment, etc.—Marsicano, Papetti & Co., Sao Paulo, Brazil.—Interested in materials for installing machines in work shops, electrical copper wires; tin; asphalt; compounds and varnishes; wire drawing machines and screw plates; magnetic wires; machines for tinning and wrapping wires and cables; machines for weaving and lacing magnetic wires, etc.; with view to representation.

Elevator (Freight).—Peninsular Brick Co., Salisbury, Md.—To purchase belt driven freight elevator, worm drive, with or without platform, 4000 lb. capacity or larger.

Elevator (Freight).—High Point Furniture Co., High Point, N. C.—Prices on freight elevator for four story warehouse.

Engine.—E. H. Morford & Co., Moore Bldg., Charleston, W. Va.—In market for 3 drum hoisting engine 8x10-in. with a swinger attachment and boiler; good operative condition.

Engine (Oil).—Gretna Roller Mills, Gretna, Va.—To purchase good second-hand 100 h.p. oil engine, Fairbanks, Morse type preferred.

Engine.—Greene County Creamery, Inc., Standardsville, Va.—Prices on 10 h.p. engine.

Engine.—Peninsular Brick Co., Salisbury, Md.—To purchase 75 to 100 h.p. fuel oil engine, new or used.

Farm Equipment.—W. T. Conway, Conway Krueger Co., 1400 S. Flores St., San Antonio, Tex.—Sweeps, middle buster plow attachments, plow handles, axe helves and wagon tongues.

Felting Machinery.—Tyler Mattress Co., Inc., Tyler, Tex.—Data and prices on felting machinery.

Fibre Conduit.—Board of Awards, F. A. Dolfield, City Reg., Baltimore, Md., receives bids until Feb. 20 for furnishing to the Electrical Commission 50,000 ft. (more or less) 3 in. fibre conduit; Charles F. Goob, Ch. Engr. Electrical Commission, 811 St. Paul Place.

Flywheel.—Tips Engine Works, Austin, Tex.—Prices on used 12 ft. diam. (or 10 or 14 ft.) x 16-in. crown belt face x 7-in. bore split flywheel of approximately 8000 lb. weight; state time of delivery.

Freight Handling Equipment.—City of Tampa, Fla., W. Lesley Brown, Mgr.—Bids until Mch. 11 for following equipment to be used at municipal dock for handling freight; one gasoline power locomotive, standard gauge, with capacity to handle two loaded freight cars; one locomotive crane, 15 to 20 ton capacity and one magnet nor handling steel (both combined if possible); conveyor or stacker to elevate and pile bags of fertilizer or other materials in bags; electric or gasoline trailer for truck; one to four sets automatic platform scales, capacity 1000 lbs. each; 50

hand trucks; request catalogs, photographs, etc.; A. W. B. Hall, Port Engr., Box 2736, Tampa.

Furniture.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Bids until Feb. 20 to furnish tables, furniture and equipment for the Department of Education; John H. Roche, Sec. Board of School Commrs.

Generator.—Gretna Roller Mills, Gretna, Va.—To purchase 100 h.p. generator.

Gold Mining Equipment.—C. J. Mulkey, Westminster, S. C.—Information on machinery for development of gold mine.

Gravel.—H. L. Washburn, Harris County Auditor, Houston, Tex.—Bids until March 3 for 10,000 tons gravel, specifications with County Engineer.

Hardware.—See Building Materials.

Heating and Plumbing.—Commissioner F. B. Frazier, Municipal Bldg., Chattanooga, Tenn., will open bids this week for plumbing work in addition to East Fifth St. school and heating old building and end addition; plans may be secured at office W. H. Sears, Archt., James Bldg., Chattanooga.

Heater.—Collins Granite Co., R.F.D. No. 4, Danville, Va.—To purchase a used open type feed water heater, capacity 300 to 400 h.p.

Heating Plant.—Arkansas Baptist Orphans' Home, A. L. Owen, Pres., Monticello, Ark.—Prices on heating plant.

Heating Plant, etc.—Building Committee, State Hospital, Morganton, N. C.—Bids until Feb. 23 for (1) Power plant piping and auxiliaries together with distributing mains, etc., and remodeling of heating equipment; (2) two direct connected alternating current, engine driven, electric generating units with switchboard, exciters and wiring between equipment and switchboard; (3) revision of outside wiring, new motors, transformers, etc.; (4) brick setting for four 300 H. P. Connelly bent tube boilers; drawing and specifications on file at offices Dr. John McCampbell, Supt., Morganton, and Wiley & Wilson, Const. Engrs., Lynchburg, Va., and may be obtained from latter.

Heating Plant.—City of Natchez, Miss., John F. Jenkins, City Clk., receives bids until Feb. 26 for erection of steam heating plant; H. M. Austin, Archt., Jackson, Miss.

Hemstitching Machine.—Dixie Furniture Co., Scotland Neck, N. C.—To purchase hemstitching machine; correspond with manufacturers.

Hoisting Machine.—Atlantic Coast Lumber Corp., Georgetown, S. C.—To correspond with manufacturers of coal hoisting machine, suitable for coaling locomotives.

I Beams, etc.—Peninsular Brick Co., Salisbury, Md.—To purchase 20 tons of 5 and 6-in. I beams, long lengths, used; and 5 and 6-in. angles and channels, used.

Ice Cream Machinery.—Y & B Corporation, Charlotte, N. C.—Bids opened for ice cream and ice making machinery for plant with daily output 2000 gals. ice cream.

Ice Plant.—City of Thayer, Mo. Details under Construction News—Water Works.

Kettles.—Gyp Valley Plaster Co., Fairmont, Okla.—To correspond with manufacturers of kettles for the calcining of gypsum plasters.

Ice Machine.—City of Umatilla, Fla., C. A. Vaughn, Mayor.—Have distilled water machine at present and are desirous of changing ice machine from distilled to raw water.

Ice Making and Refrigerating Plant.—U. S. Veterans Bureau, 791 Arlington Bldg., Washington, D. C.—Bids until March 28 for construction and installation, ready for

operation, raw water ice making and complete refrigerating plant for U. S. Veterans Hospital, Livermore, Calif.

Iron Tennis Reels.—The Roman Steel Tennis Net Co., Cumberland, Md.—Data and prices on the manufacture of iron tennis reels.

Iron (Corrugated).—Peninsular Brick Co., Salisbury, Md.—To purchase 250 squares corrugated iron, 29 gauge, new, galvanized.

Instruments (Physicians and Surgeons).—W. E. Gare, Box 1121, Orlando, Fla.—To correspond with manufacturers of physicians and surgeons instruments of glass and metal, vacuum cups, vacuum developers, etc.

Job Printing Equipment.—George M. Holloway, Pres., Sentinel Publishing Co., Lenoir, N. C.—Bids opened on job presses and other job printing equipment.

Labels.—See Bottles and Cartons.

Laundry Plant and Equipment.—Arkansas Baptist Orphans' Home, A. L. Owen, Pres., Monticello, Ark.—Prices on laundry plant and equipment.

Line Shafting.—Arkansas Brick & Tile Co., Little Rock, Ark.—Prices on line shafting.

Locomotive (Gasoline).—See Freight Handling Equipment.

Lumber.—J. M. Gladish, Pulaski, Tenn.—In market for 30M ft. 6" No. 3 flooring for sub floors and sheathing; 20M ft. 1 x 4 No. 2 rift, flooring; 12M ft. L x 4 No. 2 flat flooring; 6M ft. 1 x 6 No. 1 partition.

Lumber.—U. S. Marine Corps., Quartermaster's Department, Washington, D. C.—Bids until Feb. 14 to furnish 60,960 ft. of pine lumber for delivery to Quantico, Va. Sch. No. 337.

Match Machinery.—H. L. Scoggins, Louisville, N. C.—Data and prices on machinery to manufacture matches.

Miscellaneous Supplies.—Thomas Purchasing Agency, Wm. F. Thomas, 629 MacBain Bldg., Roanoke, Va.—Desires catalogues and information on supplies for banks, offices, shipping room, mine, mill, textile, power transmission, heating, foundries, shops, quarries, etc., etc.

Miscellaneous Supplies.—U. S. Marine Corps., Quartermaster's Department, Washington, D. C.—Bids until Feb. 21 for 240 paint brushes; 3000 ft. garden hose; 300 bottles furniture polish; 72 folding pocket rules; 200 sq. ft. linoleum; 5000 ft. lamp cord; 36 fols drawing paper, etc.

Miscellaneous Supplies.—Dist. Commrs., Room 509, Dist. Bldg., Washington, D. C.—Bids until March 10 to furnish and deliver stationery; school books; furniture and house furnishings; plumbing materials; electric supplies; kindergarten supplies, etc.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until Feb. 29 to furnish: Sheet iron or steel; tubing; brass; copper; nails; lead; steel conduit and elbows; manila rope; wire and cable; electrical fixtures and supplies; wire solder; welding rod; track motor car; motors; meters; brake-bank lining; electric drills; hand horns; horse and mule shoes; foundry brushes; window glass; hose; tires and tubes; kitchen sinks; range boilers; ship felt; asbestos gaskets; metal polish; hectography paste; emery cloth; sand paper; pencils and paper, etc. Blank forms and information (Circular 1588) on application to offices of Panama Canal, Asst. Purchasing Agents at 24 State St., New York, 611 Gravier St., New Orleans, Fort Mason, San Francisco, Cal.

Motor (Electric).—H. C. Davis, 316 W. Hargatt St., Raleigh, N. C.—To purchase 1 h. p., 110 to 220 volt, 3 phase, 60 cycle

electric motor, can use motor that is burnt out if frame is good.

Motors.—Kentucky Box & Crate Co., Inc., Henderson, Ky.—Prices on 15 to 3 h.p. motors, 1700-3600 r.p.m.; used equipment preferred.

Moulds (Ornamental Concrete, etc.).—The Dadeville Concrete Products Co., Box 85, Dadeville, Ala.—To purchase concrete flower vase and pot moulds.

Nails.—See Building Materials.

Paint.—See Building Materials.

Paint Spray Gun.—See Air Compressor, etc.

Painting.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Bids until Feb. 20 for painting interior and exterior of Engine House Nos. 5 and 34; C. H. Osborne, Inspector of Buildings.

Paper Bag Machinery.—Crystal Springs Belachery Co., Chickamauga, Ga.—To correspond with manufacturers of machinery for making paper bags.

Paving, etc.—City of Houma, La.—Details under Construction News—Road and Street Construction.

Paving.—City of Bluefield, W. Va.—Details under Construction News—Road and Street Construction.

Pipe, etc.—Peninsular Brick Co., Salisbury, Md.—To purchase 1 1/4 to 3-in. black iron pipe with unions, valves and fittings.

Pipe (Reinforced Concrete).—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Bids until Feb. 20 for furnishing and loading reinforced concrete pipe to the Highways Engr. Department; Bernard Crozier, Highways Engr.

Pipes Valves and Fittings.—Greene County Creamery, Inc., Standardsville, Va.—Prices on pipe valves and fittings.

Planers (Single Surfacers).—See Woodworking Machinery.

Plow Attachments and Handles.—See Farm Equipment.

Plumbing.—Byrum Construction Co., Oxford, N. C.—Bids on plumbing for two schools.

Plumbing.—Commissioner F. B. Frazier, Municipal Bldg., Chattanooga, Tenn., will open bids Feb. 12th, for Plumbing, East Fifth St. school. (See—Heating and Plumbing.)

Polishing Boxes.—The Hodcarrier People, West Palm Beach, Fla.—Prices on small wooden boxes attached to rotating machine used in polishing small articles of commerce, commonly called "jigger boxes."

Pug Mills.—Arkansas Brick & Tile Co., Little Rock, Ark.—Prices on pug mills.

Pump.—Greene County Creamery, Inc., Standardsville, Va.—Prices on one gravity pump.

Rails and Splices.—Peninsular Brick Co., Salisbury, Md.—To purchase 24 tons of 16-lb. relay rails and splices.

Reinforced Concrete Work.—King Lumber Co., Charlottesville, Va.—To sub-let reinforced concrete frame, Fairforest Hotel, Union, S. C.

Road.—Baltimore County, Towson, Md., will improve 2 roads. Details under Construction News—Road and Street Construction.

Road.—Harris County, Houston, Tex., will improve 3 roads. Details under Construction News—Road and Street Construction.

Road.—Lee County, Bishopville, S. C.—Details under Construction News—Road and Street Construction.

Road.—Ellis County, Waxahachie, Tex.

Details under Construction News—Road and Street Construction.

Road.—Cabell County Huntington, W. Va. Details under Construction News—Road and Street Construction.

Road.—Mingo County, Williamson, W. Va., will improve 2 roads. Details under Construction News—Road and Street Construction.

Road.—State Highway Dept., Jefferson City, Mo., will build or improve 22 roads.—Details under Construction News—Road and Street Construction.

Road.—State Highway Comm., Montgomery, Ala., will build 2 roads. Details under Construction News—Road and Street Construction.

Rock Rolls.—Arkansas Brick & Tile Co., Little Rock, Ark.—Prices on rock rolls.

Rolling Partitions (Steel).—Byrum Construction Co., Inc., Oxford, N. C.—Bids on steel rolling partitions for two schools.

Roofing.—See Building Materials.

Sash.—See Building Materials.

Scales.—Greene County Creamery, Inc., Standardsville, Va.—Prices on 2 pair of double beam 600 lb. platform scales.

Scales (Platform).—See Freight Handling Equipment.

Show Cases.—See Auto and Accessory Shop Equipment.

Sewers.—District Commrs., Washington, D. C.—Details under Construction News—Sewer Construction.

Sewer Construction and Material.—City of Richmond, Va. Details under Construction News—Sewer Construction.

Sewer Construction.—City of Enid, Okla. Details under Construction News—Sewer Construction.

Sewer Construction.—City of Huntington, W. Va. Details under Construction News—Sewer Construction.

Steel Buildings.—Arkansas Brick & Tile Co., Little Rock, Ark.—Prices on steel building to replace burned boiler room, engine room and brick machine room; prefers that representatives be sent to take measurements and give estimates.

Steel Boat Hull.—U. S. Engineer Office, Huntington, W. Va.—Bids until Feb. 28 to furnish and deliver steel quarter boat hull for Ohio river.

Steel Gang Way.—High Point Furniture Co., High Point, N. C.—Prices on steel bridge or gang way to connect one building with another.

Street Improvement.—City of St. Louis, Mo. Details under Construction News—Roads and Street Construction.

Street Improvements.—Dist. Commrs., Washington, D. C. Details under Construction News—Road and Street Construction.

Structural Steel.—Robertson & McHone Co., Lackey, Ky.—Steel and frame work for steel structure to be used for machine shop and automobile accessories plant.

Sweeps.—See Farm Equipment.

Trucks.—See Freight Handling Equipment.

Tanks (Oil Storage).—Peninsular Brick Co., Salisbury, Md.—To purchase 10,000 to 20,000 gal. oil storage tanks with coils for steam.

Tenoner.—See Woodworking Machinery.

Unloading and Conveying Equipment.—Edgerton Concrete Products Co., 202 Planters Bank Bldg., Wilson, N. C.—To purchase immediately equipment for unloading sand from cars to over head bins, will handle from four to eight cars daily; also to purchase equipment for handling cement in bags.

Vulcanizing.—See Auto and Accessory Shop Equipment.

Wagon Tongues.—See Farm Equipment.

Water Works Improvements.—City of Durham, N. C.—Details under Construction News—Water Works.

Water Works.—City of Thayer, Mo. Details under Construction News—Water Works.

Weather Stripping.—Board of Awards, F. A. Dolfeld, Register, City Hall, Baltimore, Md.—Bids until Feb. 20 for weather stripping for No. 51 School building, 34 and Frisby St.; C. H. Osborne, Inspector of Buildings.

Woodworking Machinery.—Kentucky Box & Crate Co., Inc., Henderson, Ky.—Prices on band saw; gang circular rip saw; tenoner; disk sander; table cut off saw; single surface planers; used machinery preferred.

Woodworking Machinery.—Mills & Lupton Supply Co., 1146 Market St., Chattanooga, Tenn.—Woodworking machinery including planers, matchers, molders, stickers, band saws, resaws, saw tables, sanders and dry kiln equipment.

Financial News

New Financial Corporations

Ala., Birmingham—Interstate Casualty Co., Birmingham, Ala., acquired American Central Indemnity Corporation, St. Louis, Mo.; capital \$500,000; Chester Newman, Pres.

Ala., Gadsden—G. C. and J. P. King, interested in organizing City National Bank, with \$100,000 capital.

Fla., Orlando—American Insurance Investment Corp., capital \$125,000, incorporated with F. L. Windham, Pres., Orlando; H. M. Starbird, Sec.-Treas., Apopka, Fla.

Ga., McDonough—Henry County Mutual Fire Insurance Co., chartered by H. J. Turner, President of Merchants & Farmers Bank; R. W. Dickerson; Seab Harkness, Chmn. Board of County Commrs.

Md., Baltimore—John P. Baer & Co., established by John P. Baer, with offices at 302 N. Charles St.

Md., Baltimore—S. Volkes & Co., Inc., 1504 Munsey Bldg., chartered by Samuel Volt, David Mosbacher and others.

Md., Baltimore—W. Bernard Duke, Park Ave., and Howard St., interested in establishing bank.

Md., Baltimore—Standard Mortgage Co., capital \$250,000, organized with Charles Raith, Pres., Raith Bldg.; Louis Setlen, Treas.

Mo., St. Louis—Jefferson Hebert Loan & Investment Co., capital \$20,000, incorporated by L. H. Richert, 2509 N. 23rd St., Theo. Uelk and others.

Mo., St. Louis—Twelfth St. National Bank, of St. Louis, capital \$300,000, chartered with Louis E. Dehlendorf, Pres.; Harry W. Krieger, Cashier.

N. C., Greensboro—Greensboro Life Underwriters Assn. plans organizing; Henry P. Foust, Chmn.; S. C. Wortham, Sec.

N. C., Mocksville—Mutual Building & Loan Assn., organized by T. M. Hendricks, G. A. Allison, C. G. Walker and others.

N. C., Pollockville—Citizens Bank and Trust Co., capital \$50,000, incorporated by E. E. Bell, B. C. Pollock and others.

N. C., Raleigh—Home Building & Loan Assn., organized with V. O. Parker, Pres.; M. C. Britt, Sec.-Treas.

Okla., Drumright—National Loan & Investment Co., capital \$10,000, incorporated by C. E. Kahle, P. M. Skonan and others.

Okla., Tulsa—Security National Bank of Tulsa, absorbed Liberty National Bank, capital \$250,000; Henry N. Greis, Agt., Tulsa.

S. C., Charleston—Progressive Building & Loan Assn., incorporated by Jas A. McAllister, Vincent Chicco, Jr., J. J. Heffron and P. H. Kennedy.

S. C., Greenville—People's Building & Loan Assn., capital \$100,000, incorporated by W. F. Robertson and Wyatt Aiken, Jr.

Tenn., Jackson—Jackson Bank & Trust Co., 113 N. Market St., capital \$100,000, incorporated with Mayor Lawrence Taylor, Pres.; W. H. Eason, Cashier.

Tenn., Johnson City—Anaka Trust Co., capital \$50,000, incorporated by T. E. Goodin, C. H. Hunter and others.

Tex., Alamo—Valley Securities Co., capital \$5000, incorporated by J. G. Cox, F. E. Knapp and A. H. Cox.

Tex., Dallas—First Mortgage Investment Co., capital \$250,000, incorporated with G. B. Morgan, Pres.; R. M. Goynes, Sec.-Treas.

Tex., Eastland—Eastland Abstract Co., incorporated by C. U. Connelley, R. E. Silkes and others.

Tex., Lamesa—E. E. Mathews, Pres.; O. H. Harris, Sec., organized building loan association.

Tex., Milford—First State Bank of Milford, capital \$25,000; incorporated by K. G. Stroud, J. G. Cheatham, R. D. Harris, and others.

Va., Altavista—Altavista National Bank, capital \$25,000, organized; Frank Hamner, Altavista, Correspondent.

Va., Harrisville—Peoples Bank of Harrisville, absorbed First National Bank, capital \$50,000; L. L. Cokely, Agt., Harrisville.

W. Va., Fairmont—Charles Polling, interested in organizing building and loan association.

W. Va., Fairmont—National Bank of Fairmont, organized with N. E. Jamison, Cashier.

W. Va., Huntington—United Thrift Insurance Agency, capital \$10,000, incorporated by A. L. Kouns, E. W. Browning, A. I. Marple and others.

W. Va., Moundsville—Investment Securities Co., capital \$75,000, incorporated by L. Gordon, Jacob A. Cohen and others.

New Securities

Ala., Birmingham—Public Improvements—Marx & Co., Birmingham, and Caldwell & Co., Nashville, Tenn., purchase \$150,000, 5% bonds at premium of \$400.

Ala., Birmingham—Fire Stations—City plans voting on \$200,000 bonds. Address The Mayor.

Ala., Montgomery—State Highway Improvement—State Highway Comm., Montgomery, will receive bids until March 17 for \$7,000,000 bonds.

Ark., Altheimer—Water-Works—Commrs. of Altheimer Waterworks Improvement Dist., sold \$25,000, 6% bonds to Jim McLellan, acting for Merchants & Planters Bank.

D. C., Washington—Washington Sanitary Suburban Comm., T. Howard Duckett, Chmn., Evans Bldg., will receive bids until Feb. 18 for \$500,000, 4½%, Series H, bonds.

Fla., Bartow—Road—Polk County cancelled \$3,600,000 bond election; W. S. Wev, Sec. (Lately noted to vote Feb. 26).

Fla., Bradentown—Street, Sewer, Water-Works—City will receive bids until Feb. 29 for \$65,000 bonds, including \$43,000 for street paving, \$8000 for sewer extension, and

\$14,000 for water-works extension; L. L. Hine, City Clk.

Fla., Bushnell—Road—Sumter County postponed \$650,000 bond election; plans voting latter part of February; Clarence Woods, Sec. Sumter County Chamber of Commerce. (Lately noted to vote Jan. 30.)

Fla., Clearwater—School—City plans voting March 18 on \$225,000 bonds. Address Geo. M. Lynch.

Fla., Daytona Beach—Municipal Improvements and Indebtedness—City contemplates voting on \$165,000 bonds; Frank Pope, City Attorney.

Fla., Gulfport—School—Board of Public Instruction of Pinellas County, receives bids at office of R. S. Blanton, County Supt., Clearwater, until Feb. 12 for \$45,000, 6% bond of Special Tax School Dist. No. 12.

Fla., Labelle—Water Main, Sewer, Paving and Drainage—Town. J. R. Doty, Clk., will vote March 4 for \$25,000, 6% bonds.

Fla., Palmetto—Recreation Park—City sold \$12,000, 6% bonds to Sidney Spitzer & Co., Toledo, Ohio, at 101½ and accrued interest.

Fla., Tampa—Municipal Improvements—City has postponed \$3,000,000 bond election; will probably vote middle of March. Perry G. Wall, Mayor. (Lately noted to vote Feb. 12.)

Fla., West Palm Beach—Refunding—City will vote March 4 on \$100,000, 5½% bonds. Address City Commrs.

Fla., West Palm Beach—General Purposes and Auditorium—City, H. M. McPherson, Clk., will vote soon on \$500,000 bonds. (Lately noted to vote Feb. 5.)

Fla., West Palm Beach—Refunding Indebtedness—City, H. H. McPherson, Clk., will vote March 24 on \$100,000 bonds. (Lately noted to vote Feb. 5.)

Ga., Forsyth—Street Improvement—City will vote March 10 on \$75,000 bonds. Address The Mayor.

Ga., Macon—Municipal Improvements—City plans voting April 14 on \$600,000 bonds, including \$100,000 for paving; \$150,000 for bridge; \$225,000 for sewers; \$25,000 for fire engine house and equipment; \$100,000 for stadium; Luther Williams, Mayor. (Lately noted.)

Ky., Hickman—Road and Bridge—Fulton County voted \$450,000 bonds. Address County Commrs. (Lately noted.)

Ky., Owensboro—Water Extension—Caldwell & Co., Nashville, Tenn., purchased \$100,000, 5% bonds.

La., Alexandria—School—Rapides Parish School Board will receive bids until Feb. 20 for \$1,250,000 bonds; W. J. Avery, Sec. Treas.

La., Baton Rouge—Road—East Baton Rouge Parish, 10th Ward, voted \$25,000 bonds. Address Police Jury.

La., Jonesboro—Road—Jackson Parish Police Jury, will receive bids until March 15 for \$250,000, 5% bonds; J. H. Rhymes, Sec.

La., New Iberia—Improvement—City, Lawrence F. Villerman, Clk., will receive bids until March 5 for \$200,000, 5%, \$1000 denom. bonds.

Md., Frostburg—Street Improvement—City voted \$25,000 bonds. Address The Mayor. (Lately noted.)

Md., Towson—Road and School—Stein Brothers & Boyce, 6 S. Calvert St., and Mercantile Trust and Deposit Co., Calvert and Redwood Sts., purchased \$750,000, 4½% bonds at \$101.864.

Miss., Itta Bena—School—Town voted \$5000 bonds; M. E. Robertson, Mayor. (Lately noted.)

Miss., Leland—Sewer—J. H. O'Quinn, Town Clk., will receive bids until Feb. 16 for \$120,000, 5¼ or 5½% bonds.

Miss., Meridian—Water-Works—City voted \$80,000 bonds; J. M. Slaughter, Supt. of Water Dept.

Mo., Greenville—Court House—Kaufman, Smith & Co., St. Louis, Mo., purchased \$50,000 bonds.

Mo., Morley—Street Improvement—City voted \$10,000 bonds. Address The Mayor. (Lately noted.)

N. C., Asheville—School—C. W. McNear & Co., Chicago, Ill., purchased Haw Creek School 5½% bonds at \$50,786.88.

N. C., Bryson City—School—Seasongood & Mayer, Cincinnati, Ohio, purchased \$25,000, 5½%, \$1000 denom. bonds at \$25,387.50.

N. C., Charlotte—School—City Commrs. plan voting May 2 on \$1,000,000 bonds; H. P. Harding, Supt. of Schools.

N. C., Clayton—School—City voted \$150,000 bonds; H. B. Marrow, County Supt. of Public Instruction.

N. C., Durham—School—Durham County, Bethesda School Dist., John W. Carr, Jr., County Supt., sold \$30,000, 5½% bonds to Sidney Spitzer & Co., Toledo, Ohio, at \$30,008 with accrued interest.

N. C., Flat Rock—School—Henderson County will vote in March on \$30,000 bonds. Address County Commrs.

N. C., Franklin—Road—W. K. Terry & Co., Philadelphia, Pa., purchased \$20,000, 6%, \$1000 denom. bonds at par.

Okla., Fairfax—School—City voted \$78,000 bonds. Address The Mayor.

Okla., Mangum—School—White Flat and Annie Laurie School Dist., voted \$14,000 bonds; Will C. Jones, County Supt.

Okla., Nowata—Water-Works, Fire Equipment, Filtration Plant—City voted \$83,000 bonds, including \$45,000 for water-works improvements, \$12,000 for fire equipment, and \$26,000 for filtration plant. Address The Mayor.

Okla., Tulsa—School—City will vote Feb. 19 on \$2,000,000, 5% bonds. Address Board of Education.

S. C., Columbia—Court House—Richland County will probably vote in April on \$500,000 bonds. Address County Commrs.

S. C., Kingstree—School—School Trustees of School Dist. No. 16, D. P. Frierson, Chmn., will receive bids until Feb. 15 for \$75,000, 6%, \$1000 bonds.

Tenn., Chattanooga—School, Hospital and Paving—City will receive bids until March 1 for \$635,000, 5%, \$1000 denom. bonds, including \$400,000 for school; \$175,000 for hospital and \$80,000 for paving; Richard Hardy, Mayor. (Lately noted.)

Tenn., Englewood—School—City plans voting on \$20,000 bonds. Address The Mayor.

Tenn., Lawrenceburg—Hydro-Electric and Water-Works—City will vote April 14 on \$25,000 bonds. Address The Mayor.

Tenn., Gallatin—Road—American National Co., Nashville, Tenn., purchased \$150,000, 5% bonds at \$151,956.50.

Tex., Archer City—Road—Archer County will vote Feb. 23 on \$300,000 bonds; E. M. Hooper, County Judge.

Tex., Brownwood—Auditorium—Christy Dolph purchased \$50,000, 5%, \$1000 denom. bonds, at par and accrued interest.

Tex., Corpus Christi—Harbor—Sutherland & Barry Co., New Orleans, La., purchased \$2,000,000 bonds at par and accrued interest.

Tex., Fort Worth—School—City contemplates \$2,000,000 bond issue; W. M. Short Pres. of School Board.

Tex., Fort Worth—Funding—Austin,

Grant & Co., Lehman Bros., and Van Ingen & Co., all New York, purchased \$1,250,000 bonds at premium of \$39,625.

Tex., Gibsland—Water-Works—Whitney Central Trust & Savings Co., New Orleans, La., purchased \$50,000 bonds at par plus accrued interest to date and premium of \$975. C. A. Perry, Mayor.

Tex., Graham—Road—Young County Commrs., Road Dist. No. 1, will vote March 1 on \$650,000 bonds; W. H. Reeves, County Judge. (Lately noted defeated bonds.)

Tex., Hereford—Hospital—Deaf Smith County, W. M. Megert, County Judge, will receive bids until Feb. 19, for \$50,000, 6% bonds.

Tex., Humble—School—City plans voting soon on \$100,000 bonds. Address The Mayor.

Tex., Junction—School—O'Neal Sharp & Co., Dallas, purchased \$60,000 bonds at par and accrued interest.

Tex., Kirkland—School—City will vote Feb. 23 on \$35,000 bonds. Address Supt. of School Board.

Tex., Lamesa—School—Commerce Trust Co., and Stern Bros., both Kansas City, Mo., purchased jointly \$124,000, 5½% bonds. (Lately noted.)

Tex., Lamesa—School—Lamesa Independent School Dist. voted \$124,000 bonds; R. E. Simpson, Sec. Board of Trustees.

Tex., Marshall—Improvement—City, H. S. Rice, City Sec., rejected \$686,000 bonds. (Lately noted bids until Feb. 5.)

Tex., Malone—Water-Works—R. V. Dunbar, City Sec., will receive bids until Feb. 20 for \$40,000, 6% bonds; A. J. Pyburn, Mayor.

Tex., Milford—Sewer—City defeated \$30,000 bonds. Address The Mayor.

Tex., Robstown—School—Independent School Dist. defeated \$100,000 bonds. Address W. A. Rosie.

Tex., San Marcos—Road—Hays County, Road Dist. No. 3, will vote March 1 on \$27,000 bonds; J. R. Porter, County Judge.

Tex., Tell—School—Board of Education will call an election soon to vote on \$30,000 bonds.

Tex., Tyler—School—U. W. Prater, City Mgr., will receive bids until Feb. 15 for \$40,000, 5% bonds.

Tex., Vernon—Road—Wilbarger County voted \$150,000 bonds. Address County Commrs. (Lately noted.)

Va., Norton—Improvement—City voted \$110,000 bonds. Address The Mayor.

Va., Vienna—Street Improvement—Town will vote soon on \$20,000 bonds. Address Joseph Berry, Chmn. of Council Comn.

W. Va., Huntington—Road—Jesse V. Sullivan, Sec. to Governor Morgan, Charleston, W. Va., will sell at public auction in near future \$5,000,000 of \$15,000,000 bonds.

W. Va., Morgantown—School—Monongalia County, Board of Education of Morgan Dist., plans voting on \$60,000 bonds.

Financial Notes

Atlanta National Bank, Atlanta, Ga., consolidated with Lowry Bank & Trust Co., with consolidation capital of \$4,000,000; to be known as Atlanta and Lowry National Bank; Thomas K. Glenn, Pres. Atlanta National Bank.

Farmers & Merchants Bank, A. F. Black, Pres., Huntington, W. Va., increased capital from \$35,000 to \$50,000.

Franklin Securities Co., Winnsboro, La., increased capital to \$25,000.

Fourth & First Bank & Trust Co., Chas. M. Litterer, V-P. and Cashier, Nashville, Tenn., plans increasing capital from \$250,000 to \$420,000.

Fourth & First National Bank, H. L. Wilhamson, Cashier, Nashville, Tenn., plans increasing capital from \$1,250,000 to \$1,400,000.

Lufkin Home Building Co., Inc., Lufkin, Tex., increased capital from \$40,000 to \$80,000.

Muskogee Building & Loan Assn., Muskogee, Okla., will increase capital from \$500,000 to \$1,000,000.

Natchez Building & Loan Assn., Jas. S. Fleming, Sec., Natchez, Miss., plans increasing capital from \$5000 to \$10,000.

Union Trust Co., Charles & Fayette Sts., acquired control of American Exchange and Savings Bank, North and Pennsylvania Aves., all Baltimore, Md.; will operate as American Exchange and Savings Bank Branch of Union Trust Co.; Frederick W. Schanze, present Pres. will be president of advisory board; H. W. Brenner, Cashier, will be manager of branch.

Commercial Savings & Loan Co., Lynchburg, Va., will increase capital \$50,000.

Rhodes Browne and interests connected with First National Bank and Home Savings Bank, Columbus, Ga., acquired majority of stock of Muscogee Bank, at 1st Ave. and 12th St.

The Farmers State Bank, Olney, Tex., increased capital from \$30,000 to \$40,000.

Claremore Building & Loan Assn., Claremore, Okla. plans increasing capital from \$300,000 to \$2,000,000.

Danville Perpetuating Building & Loan Assn., Danville, Va., increased capital from \$100,000 to \$200,000; L. B. Conway, Pres.

Federal Commerce Trust Co., St. Louis, Mo., incorporated with John G. Lonsdale, Pres.; David Sommers, Sec.; is taking over investment business of Bond Department of National Bank of Commerce.

Oklahoma City Building & Loan Assn., Oklahoma City, Okla., plans increasing capital from \$40,000,000 to \$44,000,000.

Security Building & Loan Assn., Guymon, Okla., will increase capital from \$500,000 to \$750,000.

Trade Literature

Two Fine Calendars.

The Concrete Steel Company, New York, have issued a very fine and practical calendar for use in business offices. It has three months to a page and each page carries an illustration relating to the Havemeyer reinforcement bars that are used widely in building and road construction throughout the country, as well as to various other Havemeyer products. Another fine office calendar is that issued by the Belmont Iron Works, Philadelphia, Pa., this also having three months to a page and each page carrying an illustration showing installations of industrial buildings and other structures in which the company's products were used.

Map of Jasper County, S. C.

J. F. Charlton, civil engineer, Savannah, Ga., has issued an excellent map of Jasper County, S. C., the southern end of which is near that city. The map is in black and white and shows the railroads, highways, prominent points and much detailed information about the county which was created a dozen years ago out of parts of Beaufort and Hampton counties and named for Sergeant Jasper, killed at Fort Moultrie in the Revolutionary War. The region is fertile and excellently adapted to the growth of trucking crops, hog, cattle and poultry raising, etc. Other counties are also being mapped, the general idea being to put information in the hands of settlers.

Improved Direct-Acting Pumps.

The direct-acting "Magma" pumps of an improved pattern are described and illustrated in Bulletin No. 100 issued by Guild & Garrison, Incorporated, 463 Kent Ave., Brooklyn, N. Y. A complete table of specifications covering the different sizes of these pumps is contained in the publication and a diagram shows a cross section of the cylinder demonstrating the manner in which the pumps function.

Welding and Cutting—Carbide Lighting.

The Alexander Milburn Company, 1416-28 W. Baltimore St., Baltimore, Md., have issued two new catalogs, one of which relates to the welding and cutting apparatus made by the company and the other to their carbide lights. Each of these booklets is comprehensive and fully illustrated, the contents being prepared for the convenience of customers in making selections of apparatus for their particular work. Copies will be sent to anyone interested on request to the company.

Cranes, Hoists, Etc.

Several publications issued by Alfred Box & Co., Philadelphia, Pa., relate respectively to their hand power traveling cranes, hand power crane trolleys, electric traveling cranes, jib cranes, electric hoists, chain hoists, I-beam trolleys, monorail cranes, overhead track systems, load lifters, etc. The catalog relating to electric operated traveling cranes is very comprehensive; it contains complete information with full attention to detail concerning them. It is liberally illustrated. A folder relating to the load lifter will be appreciated by everyone who has use for a strong, substantial and simple electric hoist of superior quality and that may be easily installed anywhere.

Small But Powerful Car Puller.

"The Silent Hoist and one man electric capstan car puller will pull and spot your cars," says the Silent Hoist Co., manufacturers of worm drive hoisting machinery, 302-4 McDougal St., Brooklyn, N. Y., in an illustrated circular which tells all about this device. It is stated that the equipment consists of a silent hoist vertical capstan winch driven by an electric motor and that the entire machine takes up only 22 by 44 inches of space. The shipping weight with alternating current motor is about 750 pounds and with direct current motor about 950 pounds. It has a drawbar pull of 5000 pounds at 25 feet per minute; it pulls at 50 feet per minute when cars are under way and it will easily pull two cars with average load.

Paved Railways and Paving Guards.

A new booklet issued by the W. S. Godwin Company, Inc., Race and McComas Sts., Baltimore, Md., tells the story of "Paved Railways. With Continuous Steel Ties and Godwin Paving Guards." The economies and advantages of this type of construction are described as total construction saving, less rail tonnage, less concrete base, less excavating, continuous and uniform rail bearing, uniform and controlled resiliency, durable paving along the rails, impervious to seepage, minimum track noise, adaptable to any rail, adaptable to any paving, adapted to rail replacement and maximum service per dollar. The book is finely illustrated with pictures which display in detail the method of construction, but in addition to this story in half tones is a comprehensive narrative containing full particulars, and giving contractors directions as to how to do such work.

A Valuable Trade Directory.

The International Cottonseed Products Directory for 1923-24, published by the Cotton and Cotton Oil News, Dallas, Tex., contains a list of American cottonseed and other vegetable oil mills, refineries, linseed oil mills, cottonseed products brokers, linter buyers, oleo factories, fertilizer factories, linter and felt buyers, brokers and manufacturers, chemists, cotton compresses, lard compound refiners, etc., as well as list of a limited number of oil, meal, linter brokers and importers, refiners and crude mills abroad. There is also a large list of wholesale grain and feed dealers in the United States. The book, which has several hundred pages, is of convenient size, is printed on substantial paper and is strongly bound in a green cloth cover.

Pumps for Various Purposes.

Sand and dredging pumps and hydraulic dredge machinery manufactured by the Morris Machine Works, Baldwinville, N. Y., are finely illustrated and described in their Bulletin No. 20, a tastefully prepared publication that is distinguished by superior printing and unusually good paper stock. The pictures are remarkably clear and distinct; many of them displaying the company's products as they appear in use upon various undertakings. One of the cuts shows how phosphate rock is mined in the Florida phosphate fields, one of these pumps throwing two 2½-inch jets under 125 pounds pressure. In addition to dredging pumps and hydraulic dredge machinery the company manufactures a complete line of centrifugal pumps for general service.

Facts About Air Compressors.

A pamphlet entitled "Trade Standards Adopted by the Compressed Air Society" embodies the results of extended study and research by executives and engineers associated with members of that organization. It gives the nomenclature and terminology of air compressors and their operation, a history of the development of speeds of air compressors, an explanation of capacities and pressures, instructions for the installation of air compressors with illustrations of devices suggested for cleaning the intake air, recommendations for the lubrication of air compressing machines, and the cleaning of air receiver piping, a description of the low pressure nozzle test recommended by the Society and a partial list of applications of compressed air. Copies of the publication may be obtained from the Secretary, C. H. Rorhbach, 50 Church St., New York.

Book on Material Handling Machines.

A new catalog issued by the Bay City Dredge Works, Bay City, Mich., is entitled "Bay City Convertible Power Shovels and is of interest to contractors using material handling equipment. It describes several different types of machines valuable to road and paving contractors, sewer contractors, sand and gravel contractors and general contractors. About one-half of the book is devoted to the Model 16-B convertible crane excavator, this machine with skimmer scoop being particularly featured. Another section is devoted to the one-man excavator, which is a smaller capacity machine developed to meet the demand for a small economical shovel of less than ¾-yard capacity. The land dredges of this make with long boom for stripping work are also described and illustrated, in fact the book is largely composed of illustrations showing machines at work upon a wide range of jobs.

Traffic Beacons and Economy.

"Budget Economy" is the striking sentence upon the back of a folder issued by the American Gas Accumulator Co., Elizabeth, N. J., relating to the use of their traffic beacons which are extensively employed in cities and towns, etc., as well as in the country for the direction of highway traffic. It is stated that the use of these devices conserves man power and that one city saved \$25,000 in a year by adopting them instead of appointing more traffic officers.

Three Bulletins on Excavating Machinery.

Three large and fine bulletins have lately been issued by the Bucyrus Company, South Milwaukee, Wis. Bulletin B-201 tells about the Bucyrus 20-B Diesel shovel dragline excavator, clam shell excavator and crane. Bulletin F-302 is devoted to the company's Diesel or gasoline shovel dragline and clam shell excavator and crane No. 30-B. Bulletin C-304 relates to the 30-B steam shovel, dragline, clam shell excavator and crane of the same manufacturers. All of these bulletins are fully illustrated with comprehensive descriptions and tabulated data concerning the different machines. Contractors and others will appreciate the information which they contain.

Clam Shell Buckets, Etc.

Superior illustrations upon paper of high quality which also carries complete descriptive matter distinguish a fine catalog issued by the Blaw-Knox Company, of Pittsburgh, concerning their line of clam shell buckets, cableways and other rehandling devices which cover a wide range of work. A complete line of sizes is maintained in order that a bucket may be chosen which will develop the maximum capacity of a crane or a hoist, in any service from the handling of light, loose materials to the heaviest and most difficult excavation and dredging work. There are more than fifty pages in this publication, all of which will be appreciated by contractors and others.

Power House and Bucket Cranes.

A booklet issued by the Whiting Corporation, Harvey, Ill., is of seasonable interest. It relates to power house cranes and bucket handling cranes. On the front cover page is a picture of a Whiting four motor electric traveling crane of 60 tons capacity and with a span of 47 feet 6 inches, this being installed in the power house of the Monongahela Valley Traction Co. at Fairmont, W. Va. Other illustrations depict the bucket handling gantry cranes made by the company. One of these installed at the plant of the Scranton Electric Co., Scranton, Pa., has a span of 118 feet with 50 feet cantilever at one end. There are also other illustrations with complete information concerning the cranes.

Drawing Instrument Catalog.

A very attractive and valuable catalog of drawing instruments manufactured by the C. F. Pease Company, 879 North Franklin St., Chicago, Ill., has been issued by that firm. It contains thirty-two pages of important data about different instruments and also concerning various combinations of them in sets. The illustrations are clean-cut, the descriptions are complete and prices are quoted. These goods are of American manufacture and of attractive but practical design. Some of them made up into sets are substantially protected in cases of genuine morocco leather. The catalog is a useful and well-designed booklet, the cover being also exceedingly appropriate and artistic.

Value of Creosoted Wood.

The advantages of creosoted materials of every description are told in No. II of Volume I of "Wood Preserving News," issued by the American Wood-Preservers Association, 1146 Otis Bldg., Chicago, Ill. The leading article of this number tells about the effective use of treated ties during fourteen years by the Chicago, Burlington & Quincy Railroad. Another article gives the story of a modern creosoted timber dock at Mobile and a third narrates the benefits of wood preservation on the Northern Pacific Railway. The illustrations are excellent.

Centrifugal Pumps.

The M. T. Davidson Company, 154 Nassau Street, New York City, have developed a line of centrifugal pumps which are described in their Bulletins Nos. 101, 102, 103. For more than forty years this company has manufactured the celebrated "Davidson" steam pumps, the simplicity and efficiency of which together with their general high-class construction has made them popular. To these they have now added centrifugal pumps of equally high standing. The bulletins have been combined with the regular catalog in a convenient loose-leaf form with attractive cover. The company will gladly send copies to any one who may apply.

Combination Steam Shovel and Crane.

Bulletin 55 of the McMyler-Interstate Co., Cleveland, Ohio, tells about the material handling machines built at its plant. The idea of combining a steam shovel and a crane in one machine is explained and illustrated convincingly. It is stated that the steam shovel attachment converts the company's No. 2 crane into a practical and efficient steam shovel capable of performing all the functions of the recognized standard types. This machine is convertible from crane to shovel in the field without special equipment. Numerous pictures show how this combined crane and shovel are used on different jobs. Specifications of standard equipment are given complete.

Oxy-Acetylene Welding, Etc.

A description of how aluminum and copper appliances are fabricated by welding is given in Volume 2, No. 4, of "Oxy-Acetylene Tips," published by the Linde Air Products Co., 30 East 42nd St., New York. The article is finely illustrated. In this booklet are also several other contributions of general interest concerning the use of oxy-acetylene.

Booklet About Turbine Blowers.

An interesting booklet concerning hand-fired and stoker-fired turbine blowers has been prepared by the L. J. Wing Mfg. Co., 358 West 13th St., New York City. This publication of twenty-four pages will be of interest to all firms or individuals who have use for forced draft equipment. It contains considerable engineering data, not only as to the application of these blowers to hand-fired boilers, but it also goes into much detail in discussing their application to underfeed and chain grate stokers, showing how they simplify installation. The booklet is fully illustrated. Copies may be obtained from the company.

Paper Trades Directory.

Lockwood's Directory of the Paper and Allied Trades for 1924 has more than 900 pages and the publishers, the Lockwood Trade Journal Co., Inc., New York City, say in the preface that more changes, it is believed, have been made in this edition, (the 49th), than ever in the history of the directory. Deflation, following the boom period of the industry, caused numerous changes in the ownership of mills and some names that had been fixed for a long time disappeared from the pages. The return to normalcy, however, has resulted in the establishment of some important new enterprises which are listed and it is also responsible for the addition of much new data in the reports of many mills. All lists have been carefully corrected with full addresses for complete convenience in addressing mail. The book is finely bound and printed.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Sales Manager Appointed.

Ralph E. MacDonald has been appointed sales manager of the Savage Mountain Fire Brick Company, succeeding Clarence Overend, with office at 1001 Federal Reserve Building, Pittsburgh, Pa.; telephone Grant 7180. The headquarters of the company are at Frostburg, Md., John A. Caldwell being president.

Bone-Char Cooling and Screening.

An interesting development of 1923 is the new apparatus designed and built by the Link-Belt Company of Philadelphia for simultaneous cooling and screening of bone-char. This bone-char cooler, it is said, has proved exceptionally capable of thorough separation and cooling, and one of the first devices of this make was installed at the new Texas City plant of the Texas Refinery. Edward P. Eastwick, Jr., consulting engineer of New York City, and widely known as one of the leading sugar engineers, originated the idea and his first bone-char cooler and screen was successfully tried out at the Godchaux Refinery in Louisiana. The Link Belt Company have entered into the production of the machine.

Proposed Sale of Steel Plant.

Formal announcement is made elsewhere in this issue of the proposed absolute auction sale on March 14, at 2 P. M. of the fully equipped Plant C of the American Manganese Steel Co., at New Castle, Del., having a water frontage, a large quantity of electric motors, foundry and steel plant equipment. The auctioneers are Gerth's Realty Experts 505 Fifth Ave., New York City.

To Solve Power and Fuel Problems.

The George T. Trundle, Jr. Engineering Co., Cleveland, Ohio, has organized a new department to deal with problems of power and fuel, this being the result of demands of clients for special service in that field. The department is under the charge of Prof. F. H. Vose, head of the department of mechanical engineering at the Case School of Applied Science, where for eleven years he has specialized in practical power plant engineering, the economical use of fuel, the utilization of waste heat, etc. He will devote particular attention to problems of power and fuel in manufacturing plants, including the glass and the brick industries.



The kind of service that sells Kelly Kats

Sometimes a truck-owner's need for traction is so great that he may buy Kelly Kats for this one quality alone. Another truck-owner may buy them for the exceptional mileage they give, or the cushioning they afford, but the majority of men who use Kelly Kats do so because they combine *all* these qualities to a marked degree.

This fact is emphasized in the following letter from the Rio Grande Oil Co., of Globe Arizona.

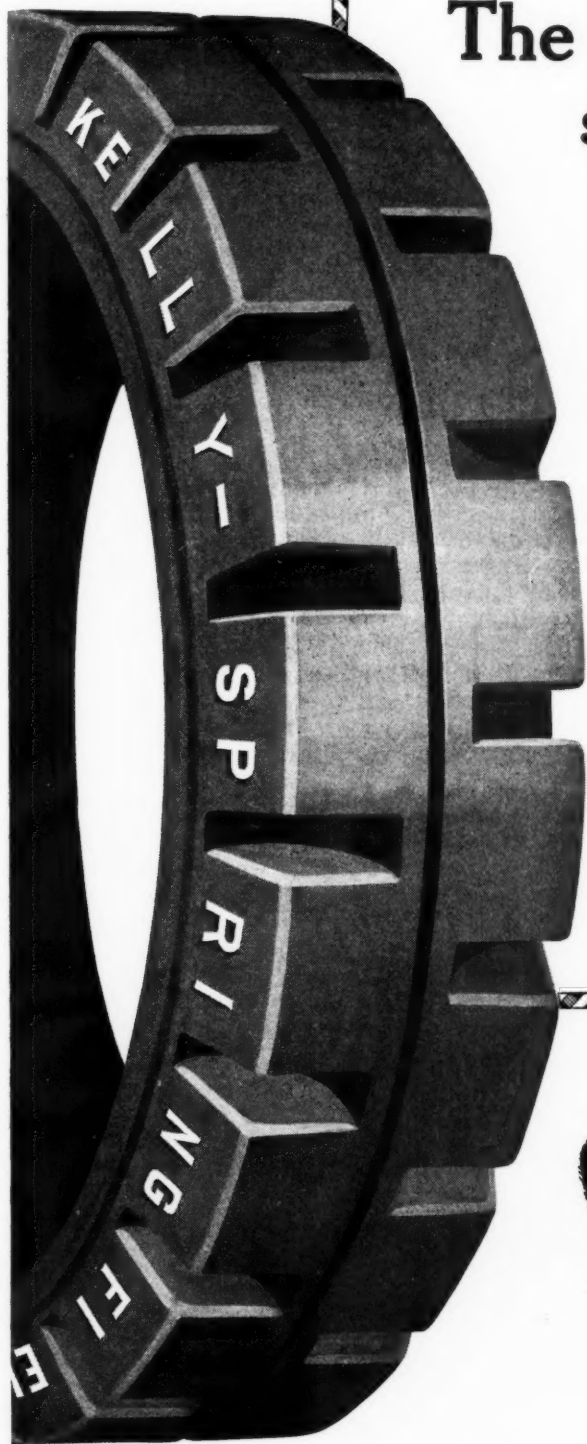
"The added traction and resiliency of Kelly Caterpillar truck tires is sufficient to cause us to equip our trucks with them, but take mileage into consideration and there is no truck tire that will equal them."

When a truck-owner secures in Kelly Kats not only the one quality he particularly needs but also all the other qualities he wants, he naturally continues to use them.

Kelly Kats are today the most widely used truck tires on the market.

**There are no Caterpillar
tires but Kelly Kats**

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1924 EDITION

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NOW IN PREPARATION—TO BE ISSUED SHORTLY

YEAR after year the BLUE BOOK OF SOUTHERN PROGRESS has grown in interest and influence in broadening the knowledge of the South itself, and of the entire nation, as to the achievements and resources and future of the South. It has become an invaluable encyclopedia of information about the South.

Railroads, public service companies, manufacturers and business concerns, banks, insurance companies and other large interests in this section have found it profitable to distribute many thousands of copies, not only among Southern people but among others in the North and West, and likewise in Europe. The 1924 edition, which is now in preparation, will, we believe, surpass in interest and in the volume of information given, any preceding issue.

It will be chocked full, heaped up and running over with data about the South, which cannot be found anywhere else.

It should be in every business office, and in every public and private library in the South, and every man and woman in this section who want to know what their own country is doing or want to let other people in other sections know about the South, should order copies now and take an active part in the work of Southern upbuilding by spreading the story of the South and what it has done, what it is doing and what it will do, throughout the coming year.

No commendation which we can write of the BLUE BOOK can be as forceful as the commendations which newspapers and business

men throughout the South have given of every edition we have published for the last few years. They have been so unstinted in their praise that their words are very much stronger than anything we can say. But in announcing that the 1924 edition is now in preparation and will be issued about the usual time, in early spring, we want to urge those who have subscribed to former editions to put their orders in now, and those who have not subscribed in the past to make a test of it this year and we are satisfied that they will find it one of the wisest investments which they have ever made.

No Southern boy or girl can know their own country fully until they have absorbed the facts which are found in these annual editions of the BLUE BOOK OF SOUTHERN PROGRESS.

Purposely the price has been held at the lowest point possible, which does not cover the actual cost of compilation and publication. We have been strongly urged to make the price \$1.00 a copy, but that might defeat our object in securing for it the widest possible circulation for the good of every interest in the South. The price has, therefore, been kept as in former years at fifty cents a copy for less than 500 copies, forty cents a copy for orders of 500 to 1000 copies, and thirty cents a copy for 1000 or more.

Advance subscriptions or orders for advertising should be sent in promptly. For anything less than ten copies advance orders should be accompanied by check or money order.

1924 EDITION OF THE Blue Book of Southern Progress

MANUFACTURERS RECORD PUBLISHING Co.,
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Name

Date..... City..... State.....

INDUSTRIAL MANAGEMENT CORPORATION

405 ST. PAUL PLACE

BALTIMORE, MD.

TWENTIETH ANNIVERSARY ANNOUNCEMENT

Twenty years ago today the great Baltimore fire was raging and this old residence was quickly converted for use as "temporary offices". It has been headquarters ever since for the Consulting Engineering firm to which this corporation became successor. We have purchased the property and intend modernizing the present building and erecting an addition in the rear.

At our recent annual meeting, our Board of Directors was greatly strengthened by the election to it, as Chairman, of Mr. Robert W. Schuette, capitalist, 353 Fifth Ave., New York City. He will personally represent us in the metropolitan financial district.

Affiliations built up through professional and business associations in the past 20 years provide a range and character of service which we believe to be unique. We are equipped to competently serve you not only in industrial engineering but also in chemical, metallurgical, mining, hydraulic, structural, civil, mechanical, electrical and architectural engineering.

In reorganizations, consolidations or mergers involving new financing, members of our staff may become integral parts of the client's salaried executive personnel to assure the bankers, or others furnishing the new capital, efficiency in management and satisfactory profits.

Our Management Engineering Service includes-

Business Surveys and Appraisals of Plant, Product and Personnel.
Sales Management, Merchandising, Advertising & Market Analysis.
Manufacturing Standardization, Cost Control, Graphics.
Automatic Machine Design, Process and Tool Engineering.
Industrial Plant Design, Equipment Engineering, Supervision.
Financial Engineering, Budgetting, General Management Counsel.

You have here at your service a clearing house of co-ordinated technical and practical knowledge, gained in the service of literally hundreds of industrial establishments.

An interview, to give you briefly a line on our methods and what we call a "Preliminary Survey", places you under no obligation whatever.

INDUSTRIAL MANAGEMENT CORPORATION.

February 9th, 1924.

Contract for \$250,000 Church at Beaumont.

Beaumont, Tex.—Contract has been awarded to C. L. Hudgins of Fort Worth for the erection of the main unit of the new \$250,000 building here for the First Baptist Church. It is understood that construction will begin at once in order to complete the building within the next ten or twelve months.

The structure will be 140 by 76 feet, two stories, of reinforced concrete and brick, stone trim, concrete foundations, wood and concrete floors and concrete and composition roof. The Sunday School unit will be 140 by 52 feet, 3-1/2 stories. Barglebaugh & Barnes of Dallas and Houston are the architects.

West Virginia Company Acquires Ohio Plant.

Wheeling, W. Va., February 9—[Special.]—By action of stockholders of both companies the J. E. Moss Iron Works of this city acquires the property and assets of the Riverside Bridge Co. of Martins Ferry, Ohio. Many changes will be made at the Riverside plant in order that a much greater tonnage of fabricated steel may be produced. The J. E. Moss Works proposes as a result of the acquisition to increase its capital stock to \$1,000,000 common and \$500,000 preferred. It will have approximately 500 skilled workmen in its employ.

Merger of Two Casualty Companies.

Birmingham, Ala.—The acquisition of the American Central Indemnity Corporation of St. Louis, by the Interstate Casualty Co. of this city, has been announced here. The Interstate company will retain its Alabama charter showing a capital of \$500,000, surplus of \$263,519, assets of \$1,188,293 and reserves of \$424,773. Chester Newman, president of the Interstate company will head the combined organization.

M. M. Tyres Coal Company Chartered.

Huntington, W. Va., February 9—[Special.]—A charter has been issued to the M. M. Tyree Coal Co. of this city, with an authorized capital stock of \$100,000. Incorporators of the company include M. M. Tyree and H. A. Robson, both of Huntington; Thomas E. Richards and Harold M. Richards, both of Blair, W. Va., and Alexander McNabb of Mt. Hope, W. Va. It is understood that these parties are interested in coal properties in southwest Virginia and eastern Kentucky and plan to market their product through the new company, of which Mr. Tyree will be president.

One of their largest producing companies is the Operman Coal Co. of Blair, operating in the Chilton seam.

General Tyson Purchases Knoxville Sentinel.

Knoxville, Tenn.—In a recent issue the Knoxville Sentinel of this city announced that the ownership of that property had passed to General L. D. Tyson of Knoxville and associates, and that General Tyson would become the president of the Sentinel. The sale was made by Curtis B. Johnson, who has held a controlling interest in the Sentinel for eleven years, and his associates. Mr. Johnson retires from the newspaper field in Knoxville to devote his entire attention to the Charlotte Observer, of which he has been controlling owner for several years.

Land Bank to Develop 1000-Acre Tract.

Kennett, Mo.—The development of a 1000-acre tract of land which it recently purchased near Kennett, is being undertaken by the Kansas City Joint Stock Land Bank. It is expected that the land will be cleared this year and a complete set of farm buildings erected on each 80-acre division of the tract. The bank has already improved and put into cultivation an 800-acre tract in Scott and Mississippi counties.

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We have specialized on this work for more than 40 years, and can furnish highest credentials as to character and quality of work and absolute responsibility. Let us send samples and quote on your requirements.

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Ask for further information.

"THE ATMOSPHERE OF YOUR BANK"

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That is our aim. We are properly conservative, but we recognize the obligation resting upon all bankers to help meet deserving business requirements.

We invite correspondence.

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Capital and Surplus \$1,000,000.00

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FIRST NATIONAL BANK

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Resources over \$30,000,000
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We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

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Charlotte, N. C.

A New Rice Product.

In the interest of the development of a wider market for the rice interests of Louisiana, The New Orleans Item publishes a lengthy editorial in enthusiastic praise of a new breakfast food entitled, "rice-o-la," which is claimed to be of unusual merit and which should take rank with the breakfast foods of the country now in such universal demand.

Louisiana has so greatly developed its rice industry that a larger market is needed for rice, and if the people of the country at large can be taught to use this new product, or similar rice products as a breakfast food, rivaling oatmeal or any one of the dozens of breakfast foods which supply the land, a new and large market will have been established for the growing rice industry of Louisiana and other Southern states. The New Orleans Item claims that this new food has flavor, consistency, and all other good qualities, and only needs proper salesmanship to make people throughout the country familiar enough with it to use it, and claims for it that it is far superior in food value to many other breakfast foods that are selling in enormous quantities.

Sewalls Point Warehouses to Cost Over \$400,000.

Norfolk, Va.—An ordinance awarding contract to R. R. Richardson & Co., of this city, for the erection of the two municipal warehouses at Sewalls Point to cost more than \$400,000, is being considered by the city council. Figures of the contractors place the cost at \$359,200, but do not include doors estimated to cost \$30,000, and the installation of a sprinkler system to cost \$40,000.

The warehouses will be of reinforced concrete, one story high, with provision for an additional story. They are expected to be ready for occupancy by October 1. Barton Myers is chairman of the port commission.

Andrews, N. C. Building Hydro-Electric Plant—Total Contracts \$350,000—Industries Wanted.

Mayor Percy B. Ferebee of Andrews, N. C., writes the MANUFACTURERS RECORD:

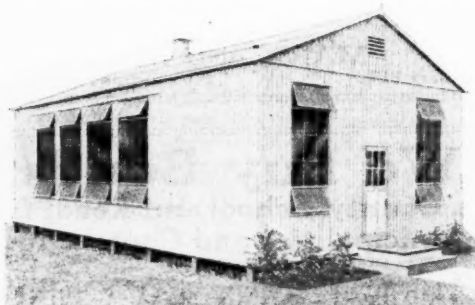
"The hydro-electric plant now under construction by the town of Andrews is on the Hiawasse River, about ten miles south. The project consists of a 42-foot reinforced concrete dam, power house with two 750 K. V. A. generators and provision for a third 750 K. V. A. generator to be installed when required, transmission line, transformer stations, etc.

"Representing the town are the Ludlow Engineers, Inc. of Winston-Salem, N. C. Contract for construction of the dam, power house, transmission line and transformer stations has been let to Tucker & Laxton, Inc., Charlotte, N. C. Electrical equipment, generators, transformers, switchboards, etc. have been awarded the General Electric Co., Schenectady, N. Y., and contract for water wheels and other hydraulic equipment to S. Morgan Smith Co. of York, Pa.

"The total of contracts awarded amounts to approximately \$350,000. Construction work is now under way and it is expected to have the plant in operation by January 1, 1925. About 700 horsepower has been contracted to industries now located at Andrews, the remainder to be offered at very attractive rates to any industry or industries that will locate here.

"This town is particularly anxious to locate plants employing female labor, as all plants here employ male labor exclusively. Andrews is in the mountains of western North Carolina, has favorable climate, pure water and abundant native labor, and we feel that it is an admirable location for a textile plant, especially in view of the very cheap power that will be furnished by the town."

For the Plant Office or Laboratory



The MARYLAND METAL BUILDING

is a wise purchase because it is substantial, comfortable and economical.

Send for Catalog.

MARYLAND METAL BUILDING COMPANY
MANUFACTURERS

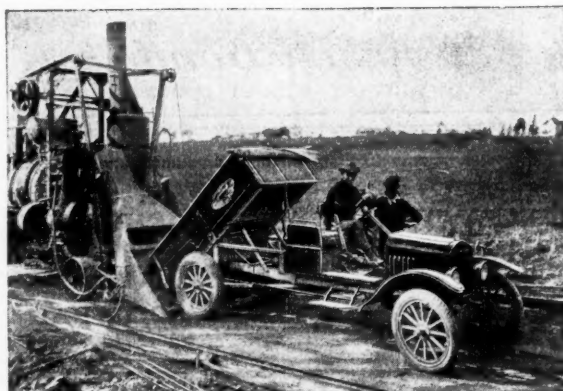
Baltimore

Crozer Bldg.
PHILADELPHIA

160 Broadway
NEW YORK

For Building Concrete Roads—also Sand and Gravel work

EAGLE UNIVERSAL DUMP BODIES



EAGLE Gravity Dump Bodies for Ford Ton Trucks are growing rapidly in favor with both dealers and users—for there is no comeback once the job is sold, because users are satisfied and become boosters for EAGLES. Bodies regularly furnished with steel lined bottom—or lined thruout with steel if so ordered.

Ask us for literature on our new platform dump.

Ask us for prices and distributor's proposition.

THE EAGLE WAGON WORKS

Auburn
New York

Manufacturers
of the famous
Eagle Dump Wagon.



PROPOSALS

BOND ISSUES
BUILDINGS
PAVING
GOOD ROADS

Bids close March 1, 1924.

U. S. Engineer Office, Florence, Alabama. SEALED PROPOSALS will be received here until 11 A. M., March 1, 1924, and then opened, for furnishing and delivering four hydraulic turbines each of thirty-five thousand (35,000) horsepower, with governors. Further information on application.

Bids close March 11, 1924.

SEALED PROPOSALS, indorsed, "Proposals for Hospital Construction, Pikesville, Ky.," will be received by the U. S. Veterans Bureau, Room No. 791, Arlington Building, Washington, D. C., until 11 A. M., March 11, 1924, and then there publicly opened, for the construction complete, of one fire-proof hospital building, one double officers quarters of brick and frame construction, one brick and frame well house, one steel water tank, and one drilled well to be built at U. S. Veterans Hospital, Pikesville, Ky., as shown on drawings and described in the specifications. This work will include concrete foundation work, reinforced concrete slab construction, limestone, brick and terra cotta tile work, metal lathing, built-up roofing, slate roofing, cement, mastic, tile and wood flooring, slate and marble work, carpentry, ironwork, interior plastering, interior and exterior painting, glazing, hardware, heating, plumbing and electrical installation, outside service connections and approach work. Drawings and specifications may be obtained upon application to the Construction Division, Room No. 791, Arlington Building, Washington, D. C. Deposit with application of a certified check or postal money order for \$50 payable to the Treasurer of the United States, is required as security for safe return of drawings and specifications within ten days after date of opening proposals. Frank T. Hines, Director, February 6, 1924.

Bids close March 28, 1924.

SEALED PROPOSALS, indorsed, "Proposals for Construction of Ice-making and Refrigerating Plant at U. S. Veterans Hospital, Livermore, Calif.," will be received by the U. S. Veterans Bureau, Room No. 791, Arlington Building, Washington, D. C., until 11 A. M. March 28, 1924, and then there publicly opened, for the construction and installation, ready for operation, of a raw-water ice-making and a complete refrigerating plant for U. S. Veterans Hospital, Livermore, Calif., as shown on drawings and as described in specifications. Drawings and specifications may be obtained upon application to the Construction Division, Room No. 791, Arlington Building, Washington, D. C., or to Wm. H. Radcliffe, Bureau Representative at U. S. Veterans Hospital, Livermore, Calif. Deposit with application of a check or postal money order for \$15 payable to the Treasurer of the United States, is required as security for safe return of drawings and specifications within ten days after date of opening proposals. Frank T. Hines, Feb. 11, 1924.

Bids close February 29, 1924.

\$65,000.00 Municipal Bonds

Bradentown, Fla., Feb. 2, 1924.

Sealed bids for \$43,000.00 Street Paving Bonds, \$8,000.00 Sewer Extension Bonds and \$14,000.00 Water Works Extension Bonds will be received up to 3 o'clock P. M. February 29, 1924, by the City Council at the Council chamber, City Hall, Bradentown, Florida.

A certified check in the sum of \$1500.00 made payable to Whitney Curry, Mayor, as an evidence of good faith must accompany each bid.

Bonds are for \$1000.00 each with interest coupons attached at 5% per annum payable semi-annually.

Bonds may be for 30 years or Serial Type. Bid each way.

Bonds have been voted and validated, but not printed. To be dated March 1, 1924.

The right to reject any or all bids is hereby reserved.

For further information address,

L. L. HINE, City Clerk.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M., Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close February 15, 1924.

\$80,000 Paving Certificates

Bennettsville, S. C., Feb. 1, 1924.

Bids will be received by the City Council of Bennettsville, South Carolina, at their office until 12 o'clock, noon, February 15th, 1924, for the purchase of \$80,000 Paving Certificates of said City. To be dated April 1st, 1924, bearing interest at the rate to be named by bidder, in multiple of one-fourth of 1%, not over 6%. Interest payable semi-annually in New York City, maturing as follows: \$5000 yearly 1925 to 1934 inclusive, and \$6000 1935 to 1939 inclusive. Purchaser will be required to furnish legal opinion and the blank certificates.

Good faith check for \$800 required with each bid. The right is reserved to reject any and all bids.

By order of City Council.

L. C. McARTHUR, Clerk.

Bascule Bridge

St. Augustine, Fla.

A bid for building a steel bascule bridge over the North river in the city of St. Augustine, Florida, and completing abutments, causeways, roads and approaches, is desired, and the contract will be awarded to a responsible firm if a satisfactory price is named.

Payment to be taken in 8% first mortgage 10-year bonds at 90. Security for the bonds will be the toll bridge and approaches, and 450 acres of land valued at ten times the amount of the bonds.

Full plans, details and information at Room 2005, 18 East 41st street, New York City.

ST. AUGUSTINE NORTH BEACH & TOLL BRIDGE CO.

Bids close March 1, 1924.

Drainage Improvements

La Grange, N. C.

Sealed proposals for the construction of drainage improvements in Wayne County Drainage District Number One, La Grange, N. C., will be received by the Board of Drainage Commissioners up to twelve o'clock noon on the first day of March, 1924, at their office in La Grange, N. C.

The work to be done consists of cleaning out and cutting approximately fifteen miles of dredge ditches containing approximately two hundred thousand cubic yards. This work is suitable for Dragline or Floating dredge. If dragline is used, prospect is good for contracts amounting to several thousand additional yards with individual land owners.

This work is to be completed on or before the first day of June, Nineteen Hundred and Twenty-Five.

A certified check in the amount of Five Hundred Dollars made payable to the Board of Drainage Commissioners of Wayne County Drainage District Number One must accompany each bid.

The Board reserves the right to reject any or all bids. The plans and specifications may be seen at the office of the Board in La Grange, N. C., or in the office of Will D. Alexander, Engineer, at Charlotte, N. C.

H. F. HARDY, Chairman.

L. R. BRIN, Secretary.

S. D. McCULEN, Attorney.

Bids close February 28, 1924.

Water Works Improvements

Durham, N. C.

Sealed proposals will be received by the Mayor and Council of the City of Durham, N. C., up to twelve o'clock noon on the 28th day of February, 1924, for furnishing and erecting the following apparatus and equipment:

- 3—725 Horsepower Vertical Hydraulic Turbines.
- 3—500 Kilowatt Vertical Generators.
- 1—2000 KVA. Substation.
- 1—1000 KVA Substation.
- 2—5000 GPM. Centrifugal Pumps arranged for Turbine Drive.
- 2—260 Horsepower Horizontal Hydraulic Turbines.
- 2—5000 GPM. Centrifugal Pumps arranged for Motor Drive, 150 foot head.
- 2—300 Horsepower Synchronous Motors with Exciters.
- 2—5000 GPM. Centrifugal Pumps arranged for Motor Drive, 230 foot head.
- 2—400 Horsepower Synchronous Motors with Exciters.
- 1—Main Station Switchboard.
- 7—Circular opening, square frame, Sluice Gates ranging from 42 inches to 72 inches in diameter.
- 6—12-inch Circular Opening Sluice Gates.
- 3—Trash Racks with mechanically operated rakes.

No other apparatus will be considered at this time but additional equipment and construction work will be opened to tenders at a later date.

Separate bids may be made on the several items.

Plans and Specifications are on file with the City Clerk and blank forms of Proposal, Specifications, etc. may be obtained from the Engineer without charge.

Certified check for five per cent (5%) of the amount bid for such items for which a proposal is made must accompany all proposals.

Bids will be opened in the presence of those interested but the Council reserves the right to reject any or all bids.

By order of the Mayor and Council.

R. W. RIGSBY, City Manager.

Engineer:

WM. M. PIATT, Durham, N. C.

Bids close February 20, 1924.

Water Works Improvements

Goldsboro, N. C.

Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Goldsboro, N. C., until 7:45 P. M., February 20, 1924, at the City Hall in Goldsboro, N. C., for the construction of certain Water Works Improvements.

The work will consist of the construction of a Reinforced Concrete Sedimentation Basin to serve a filter plant having a capacity of 2½-million gallons per day; the construction of two Reinforced Concrete Filter Tubs; extension of the filter plant building; furnishing and installation of filter equipment, rate controllers, etc., and reconditioning three old filters; furnishing and erecting a 50,000 gallon Wash Water Tank, etc.

Proposals must be marked "Proposals for Water Works Improvements for the City of Goldsboro, N. C." All bids must be submitted upon blank forms provided in copies of the proposal, contract and specifications.

Each bid must be accompanied by a certified check for five (5) per cent of the amount of the bid, as evidence of good faith, but in no event for less than the amount of \$250.00.

Plans, copies of the proposal, contract, specifications, etc., may be obtained upon application to the Engineer.

The City reserves the right to reject any or all bids or to award contracts which appear to be for the best interests of the City.

E. H. BAIN, Mayor.

CLAUDE M. GRANTHAM,

City Manager.

WILLIAM C. OLSEN, Engineer.

Raleigh, N. C.

Bids close February 21, 1924.

Water Works and Ice Plant

Thayer, Mo.
Bids will be received up to 7.30 P. M., February 21st for the construction of a water works system and ice plant for the City of Thayer, Mo.

Plans and specifications from Alexander Engineering Company, 517 Woodruff Building, Springfield, Mo., or may be seen on file in the office of the City Clerk of the City of Thayer, Mo.

C. W. BLACK, City Clerk.

Bids close February 22, 1924.

Water Works Improvements

Smithfield, N. C.
Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Smithfield, N. C., until 3:00 P. M., February 22, 1924, at the City Clerk's office in Smithfield, N. C., for the construction of certain Waterworks Improvements.

The work will consist of the construction of a Reinforced Concrete Sedimentation Basin; reconditioning of two filter units; the construction of chemical tanks with agitators; the construction of a chemical laboratory and furnishing of equipment therefor; furnishing and erecting a 25,000 gallon steel wash water tank, etc.

Proposals must be marked "Proposals for Waterworks Improvements for the City of Smithfield, N. C." All bids must be submitted upon blank forms provided in copies of the proposal, contract and specifications.

Each bid must be accompanied by a certified check for five (5) per cent of the amount of the bid, but in no event for less than the amount of \$250.00.

Plans, copies of the proposal, contract, specifications, etc., may be obtained upon application to the Engineer.

The Town reserves the right to reject any or all bids or to award contracts which appear to be for the best interests of the Town.

J. A. NARRON, Mayor.
WILLIAM C. OLSEN, Engineer.
Raleigh, N. C.

Bids close February 27 1924.

Water Works and Sewers

Hartsville, S. C.
Sealed proposals will be received until 12 o'clock noon February 27, 1924, in the office of the City Clerk, by the Board of Public Works of Hartsville, S. C., for the following improvements:

WATER WORKS PLANT.
1—500,000 Gallon Reinforced Concrete Reservoir.
1—Brick Building, 20x30.
2—Motor Driven Centrifugal Pumps, 1000 G. P. M., with the necessary hydraulic connections.

EXTENSION TO WATER LINES.
2800—feet, 12 inch Cast Iron Pipe.
1900—feet, 6 inch Cast Iron Pipe.

Necessary hydrants, valves and fittings.
EXTENSION TO SEWER LINES.
6100—feet of 8 inch, 10 inch and 12 inch Sewer Pipe with necessary manholes, flush tanks, "Y" branches, etc.

A certified check for \$2000 or a satisfactory bidder's bond must accompany each bid.

Plans and specifications may be obtained upon deposit of \$10.00 with the Ryan Engineering Company, Arcade Building, Columbia, S. C., to be returned if a bona fide bid is filed and the plans returned in good condition within five days from date of receiving bids.

The right is reserved to reject any or all bids.

BOARD OF PUBLIC WORKS,
A. M. McNAIR,
J. J. LAWTON,
J. A. McINTYRE.

ENGINEERS:
CHAS. C. WILSON,
Chief Engineer,
Ryan Engineering Company,
Associate Engineer.

Bids close February 18, 1924.

Dredging

Tampa, Fla.
Proposals will be received at the Office of the Interstate Investment Company, Tampa Florida, until February 18, 1924. Covering the removal of approximately one hundred thirty thousand yards sand, clay and rock in Tampa Harbor.

Soundings and full information on request.
INTERSTATE INVESTMENT COMPANY.

Bids close February 25, 1924.

Sewers

**OFFICE OF
DIRECTOR OF PUBLIC WORKS.**

Richmond, Va., February 5, 1924.

Sealed proposals will be received at this office until 12 o'clock noon, February 25, 1924, for the Construction of Segment Block, Terra Cotta Pipe and Precast Reinforced Concrete Sewers. (Ten contracts. Estimated cost \$725,000). \$5.00 charge for each proposal and plans, to be refunded upon return of proposal. Forms of proposals can be obtained on application.

A certified check for amount stated on proposals must accompany each bid as a guaranty of execution of contract. The Director of Public Works reserves the right to reject any and all bids.

ALLEN J. SAVILLE,
Director of Public Works.

Bids close February 20, 1924.

Sanitary Sewers

Russellville, Ala.
Sealed proposals will be received by the Mayor of Russellville, Alabama, until 3:00 P. M. Wednesday, February 20th, 1924, for the construction of approximately nine miles of Sanitary Sewers, ranging from 8" to 15" in size, together with the required manholes, masonry piers, etc.

Specifications may be obtained and plans examined at the office of the Mayor, or of the Consulting Engineer, Birmingham, Alabama. A set of plans for individual use may be obtained at a price of \$5.00.

Payments will be made on Engineer's estimate monthly in cash. Certified check or bidders' bond for \$1500.00 must accompany each proposal. The right is reserved to reject any or all proposals.

W. W. RAMSEY, Mayor.
ROBERT L. TOTTON, Consulting Engineer: Birmingham, Alabama.

Bids close February 27, 1924.

Paving and Sewers

Mobile, Ala.
Sealed bids will be received by the City Commissioners of Mobile, Alabama, until noon Wednesday February 27, 1924, for the following:

- | | |
|-------------------------------------|----------------|
| (1) Asphaltic Pavement..... | 51406 Sq. Yds. |
| Concrete Curbing..... | 34064 Lin. Ft. |
| (2) One course Concrete Paving..... | 30583 Sq. Yds. |
| Concrete Curbing..... | 16151 Lin. Ft. |
| Granite Curbing..... | 220 Lin. Ft. |
| (3) Storm Sewers: | |
| 6 inch pipe..... | 2100 Ft. |
| 10 inch pipe..... | 5584 Ft. |
| 12 inch pipe..... | 9854 Ft. |
| 15 inch pipe..... | 5765 Ft. |
| 18 inch pipe..... | 4955 Ft. |
| 20 inch pipe..... | 220 Ft. |
| 24 inch pipe..... | 2972 Ft. |
| Inlets..... | 205 |
| Special Basins..... | 56 |
| Manholes..... | 75 |
| Concrete Culvert..... | 1030 Ft. |
| Headwalls..... | 7 |
| Concrete Chutes..... | 4 |

Each bid will be accompanied by a certified check for \$1000. The right is reserved to reject any or all bids. Plans and specifications are on file in the City Engineer's Office and can there be seen.
GEO. E. CRAWFORD, Commissioner.
WRIGHT SMITH, City Engineer.

Bids close March 11, 1924.

School Buildings

**SEPARATE BIDS ON
BUILDINGS, ELECTRICAL WORK,
PLUMBING,
HEATING AND VENTILATING**

Sumter, S. C.
Sealed proposals will be received by the Board of Trustees, Sumter City Schools, Sumter, S. C., in the offices of the Board of Trade, at noon March 11, 1924, for the erection and equipment of the following buildings:

- Boys' High School.
- Girls' High School.
- Primary School.
- Negro School.

The following separate contracts will be made for each:

- Building Construction.
- Electrical Work.
- Plumbing.
- Heating and Ventilating.

Bids will be considered on each of the four contracts on each building separately

and on each contract covering all four buildings.

Plans and specifications may be seen and estimates may be made without cost at the following points:

Office of Wilson, Berryman & Kennedy, Architects, Columbia, S. C.
Office of Builders' Exchange, Columbia, S. C.

Office of Builders' Exchange, Atlanta, Ga.
Office of Chamber of Commerce, Charlotte, N. C.

Office of Chamber of Commerce, Greensboro, N. C.

They may also be obtained upon application to Wilson, Berryman & Kennedy, Architects, Columbia, S. C., on deposit of Ten (\$10.00) Dollars for each set of plans, or division of plans, that they may desire as a guarantee that they will be returned in good condition and without expense within five (5) days of the date set for the submission of bids, and that a bona fide bid be made. When these conditions are met, the deposit will be refunded; otherwise it will be retained by the Architects.

Sub-contractors and material men may secure such portions of the plans and specifications as they may desire at current blue print rates.

Each bid must be accompanied by a certified check or bid bond, the amounts to be as follows:

- | | |
|----------------------------|------------|
| 1. Girls' High School..... | \$2,500.00 |
| 2. Boys' High School..... | 1,500.00 |
| 3. Washington School..... | 250.00 |
| 4. Negro School..... | 750.00 |

The above amounts to be a guarantee that if bid is accepted, the contractor will enter into a contract and give bond in the form of the American Institute of Architects (3rd Edition), in an approved Surety Company for an amount not less than one-third of the contract price, covering the contract and its guarantees for a period of twenty-seven (27) months.

The right is reserved to reject any or all bids.

J. A. MOOD, Chairman.
J. W. BRUNSON, Secretary.

Bids close March 18, 1924.

College Buildings

Gaffney, S. C.

Sealed proposals will be received by the Building Committee of Limestone College at Gaffney, S. C., at 7.30 P. M. on Tuesday, March 18, 1924, for the erection of the following buildings:

- Hamrick Hall of Science.
- Carroll School of Fine Arts.
- President's House.

Plans and specifications may be seen and estimates may be made without cost at the following offices:

Wilson, Berryman & Kennedy, Architects, Columbia, S. C.
Wilson, Berryman & Kennedy, Architects, Gastonia, N. C.
Wilson, Berryman & Kennedy, Architects, Wilson, N. C.

Builders' Exchange, Columbia, S. C.
Builders' Exchange, Atlanta, Ga.
Chamber of Commerce, Charlotte, N. C.
Chamber of Commerce, Greensboro, N. C.

They may also be obtained upon application to Wilson, Berryman & Kennedy, Architects, Columbia, S. C., on deposit of ten and no/100 (\$10.00) Dollars for each set of plans, as a guarantee that they will be returned without expense and in good condition within five days of the date on which bids are submitted, and that a bona fide bid will be made. When these conditions are met the deposit will be refunded; otherwise it will be retained by the Architects.

Sub-contractors and dealers in material may secure such portions of the plans and specifications as they may desire at current blue-print rates, without refund.

Each proposal must be accompanied by a certified check or bid bond in the following amounts:

- | | |
|-------------------------------|------------|
| Hamrick Hall of Science.... | \$1,250.00 |
| Carroll School of Fine Arts.. | 1,250.00 |
| President's House..... | 500.00 |

These deposits are to guarantee that if the proposal is accepted the contractor will enter into a contract and give bond in the standard form of the American Institute of Architects (3rd Edition) in an approved Surety Company for an amount not less than one-third of the contract price covering the contract and its guarantees, to completion and for twenty-seven (27) months thereafter.

The right is reserved to reject any or all bids.

W. C. HAMRICK, Chairman.

Date of opening Bids on the Addition to Court House extended from February 6, 1924 to February 20, 1924.

Addition to Court House

Huntington, W. Va.

SEALED bids will be received by the County Court, at County Court Room, Huntington, W. Va., until one o'clock P. M., WEDNESDAY, FEBRUARY 20, 1924, for the erection of three-story addition to court house, in accordance with plans and specifications to be furnished by R. S. Douthat, County Clerk, Huntington, W. Va., all plans and specifications to be returned by unsuccessful bidders. \$1500.00 certified check to be filed with each bid, payable to Cabell County Court, W. Va., contract to be executed within one week or forfeiture of check.

Bond required covering contract.

No proposals received or considered unless made on combined proposal sheets, furnished by R. S. Douthat, County Clerk.

Court reserves right to reject any and all bids.

COUNTY COURT OF CABELL COUNTY, WEST VIRGINIA.

By R. S. DOUTHAT,
Clerk, C. C. C.

Ferry

Wilmington, N. C.

WANTED—One Ferry Boat capacity not less than 20 automobiles passenger capacity immaterial. Oil burner preferred, must be in good condition. Write giving full description, location and price.

Addison Hewlett, Chairman,
New Hanover-Brunswick Ferry Commission.

Bids close February 25, 1924.

Materials for Sewers

OFFICE OF
DIRECTOR OF PUBLIC WORKS.

Richmond, Va., February 5, 1924.

Sealed proposals will be received at this office until 12 o'clock noon, February 25, 1924, for the Furnishing of Segment Block, Terra Cotta Pipe, Precast Reinforced Concrete Pipe, Cement, Castings and Brick for Sewer construction. Ten contracts. Estimated total cost construction and material \$725,000. (\$5.00 charge for each proposal, to be refunded upon return of proposal). Forms of proposals can be obtained on application.

A certified check for amount stated on proposals must accompany each bid as a guaranty of execution of contract. The Director of Public Works reserves the right to reject any and all bids.

ALLEN J. SAVILLE,
Director of Public Works.

Bids close February 20, 1924

Furnishing and Loading Reinforced Concrete Pipe

DEPARTMENT OF PUBLIC IMPROVEMENTS.
SUB-DEPARTMENT OF HIGHWAYS
ENGINEER,

Baltimore, Feb. 6th, 1924.

SEALED BIDS OR PROPOSALS, executed in duplicate, and addressed to the

Board of Awards, in care of the City Register, will be received by him at his office, City Hall, Baltimore, Maryland, until eleven o'clock A. M., WEDNESDAY, February 20th, 1924, for FURNISHING AND LOADING REINFORCED CONCRETE PIPE TO THE HIGHWAYS ENGINEER'S DEPARTMENT, at which time and place they will be publicly opened by the Board of Awards and read.

Certified check of the bidder, drawn on a clearing-house bank to the order of the Mayor and City Council of Baltimore, in the amount recited in the specifications must accompany each bid.

Bond in the amount of the contract price will be required of the successful bidder.

The Board of Awards reserves the right to reject any or all bids.

Specifications and bidding forms for this work may be obtained upon application at the office of the Highways Engineer, Room 10, City Hall, Baltimore, Maryland.

BERNARD L. CROZIER,
Highways Engineer.
STUART PURCELL,
Chief Engineer.

Approved:

HOWARD W. JACKSON,
President Board of Awards.
GEORGE E. KIEFFNER,
Assistant City Solicitor.

Reinforced Concrete Work

WANTED: To sub-let reinforced concrete frame, Fairforest Hotel, Union, S. C. Apply KING LUMBER COMPANY, Charlottesville, Va.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

SOUTHERN INVESTMENT Opportunities. We offer timber lands, coal lands, mines, sawmills, cotton mills, industrial plants, ice plants, public utilities, quarries, etc. Hodgson Investment Co., Knoxville, Tenn.

WATER POWER

ATTRACTIVE UNDEVELOPED water power and mill site within one and one-half miles of Railroad in North East Georgia. Would like to get in communication with interested parties. J. H. Tate, Anderson, S. C.

TIMBER AND TIMBER LAND

FOR SALE—Several large tracts of hardwood timber located in Florence, Horry, Sumter, Williamsburg, Georgetown, Berkeley and Charleston counties. Free sites to bona fide plants located at Georgetown, S. C. For particulars write Clarence C. Phillips and Brother, Timber Land Factors, Georgetown, S. C.

FOR SALE—600 million feet Redwood white and yellow pine timber, in central California, 15 million profit is waiting the lucky man that buys this timber. S. F. Wiles, 1315 West 9th St., Los Angeles, Cal.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co., (Inc.), Opp. Post Office, "Since before the war," Tampa, Fla.

480 ACRE FARM with 200 acres of yellow pine timber. Natural growth, located on railroad and highway. Buildings good, lands all elevated and fertile. Will sell stock and feed on the place with all implements, at bargain. Good tenants now on the place. A snap for the right party. Don't answer without you know bargains when you see them.

N. H. Green, Branford, Fla.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c. per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FOR SALE.

Six thousand acres of land, good for fruit and farming, also fine satsuma orange land, high well drained, over two hundred feet above sea level; fine lakes and good fishing and hunting. will take \$12.50 per acre, other land in same vicinity has been selling as high as \$200.00 per acre, this is a good purchase will net any purchaser 8 per cent annually on his investment. Apply to G. M. Thomas, Marianna, Fla.

MISSISSIPPI

WANTED TO SELL.

Wanted to sell good improved 400 acre farm in Holmes County, Miss. Fine bottom land well drained, one and one-half miles from railroad. Sand and clay highway running through this place to railroad. In connection with this place we offer house and lot in railroad town one and a half miles from farm. We also offer a 320 acre delta farm in Bolivar County, Miss. Good house and barn and 40 acres in cultivation. Will grow anything. Fine opportunity for young farmer. Will sell for part cash and balance on terms. Address No. 6287 care Manufacturers Record.

VIRGINIA

"FARMS TO FIT." All kinds. Easy terms. Mild, healthful climate. Nearby markets. Booklet free. Magnificent 2230-acre estate, \$90,000. Easily worth \$200,000. Unusual 160a orchard, \$26,000 worth \$45,000. Exceptional 256a dairy farm, \$22,000, splendid markets, roads, schools, colleges. 165a, splendid buildings, \$15,000, cheap at \$20,000. 220a, good buildings, fair land, \$7,500. 100a and 115a farms, \$5,400 each, very desirable. 65a, \$3,800. Good buildings, splendid roads, markets, schools, colleges. 50a orchard, \$3,600, extraordinary sacrifice, 1920 crop brought \$5,100, netted \$3,100. 210a, \$2,900, dwelling and timber worth price. 68½a, splendid roads, schools, markets, colleges, \$2,200. 50a, very desirable, \$1,200. 80a, fair land, \$900. 40½a, cabin, barn, \$900, lumber cut for dwelling and stable. 50a, good land, no buildings, \$650. Many other bargains. Ponton, The Farm Tailor. Box 343, Bedford, Va.

BUSINESS OPPORTUNITIES

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,
Harlow Building, Colorado Building,
Alexandria, Va. Washington, D. C.

FOR SALE FISHING RIGHT. The best in the State. Lake covers two thousand acres of land. Will sell exclusive right and I will look after same. Fine hunting also. Will give deed, good title. A great place for sport.

G. M. Thomas, Marianna, Fla.

RETAIL LUMBER YARD doing a Building Material business \$40,000.00 to \$65,000.00 per annum. About 90% is cash inside of three months. Plot is 150 ft. along P. & L. E. tracks by 100 ft. deep. WEBSTER LUMBER CO., WEBSTER, PA.

FOR SALE nice home, 600 acre farm and hydro-electric plant with a twenty-year contract with the City of Marianna for light and power. Plant pays ten thousand dollars a year; also good fishing and hunting as there is in the State, fine sport. An ideal place for anybody to live. Six miles South of City of Marianna. Want to sell quick. Wire or write or come to G. M. Thomas, Marianna, Fla.

BUSINESS OPPORTUNITIES

WANTED CAPITAL to develop town site, own 640 acres that two main railroads cross on, in S. E. Okla., surrounded by Coal, Oil, Gas and rich farming. For particulars write
J. E. Cavanagh, McAlester, Okla.

I OWN VALUABLE PATENTS on Bolted Metal Tank-Silo and Grain Crib construction. Demonstrated practical, both domestic and export. Offer liberal share and control of capital to manufacture. Address No. 6288, care Manufacturers Record.

TWENTY THOUSAND FEET of floor space to rent in modern, fireproof, daylight building, located in wholesale district, especially suited for garment or textile manufacturing purposes. Public hall and elevator entrance to each floor. Will rent one, two or three floors. Bowman-Moore Hat Company, Knoxville, Tennessee.

SUBDIVISION OPPORTUNITY
FOR SALE—Thirty acres in most popular residence section Clarksville, Tenn., ten thousand population. Three hundred trees well distributed over estate. Maple, Oaks, Hickory, Beech, Ash, Walnut and Cherry, well cared for, last forty years by wealthy owner, blue grass sod. Two-story brick dwelling good condition, all hardwood floors, City light and water. Actual demand now for lots make this opportunity for subdivision this Spring or Summer. It is going to be sold. **SECURITY TRUST CO.**, Clarksville, Tenn.

FILTER SAND USERS—We are offering for filter purposes, 98½% silica sand, effective size .45 millimeters, uniformity coefficient 1.6. Sample sent on request.
EVANS SAND CO., ELLIOTT, S. C.

FORTUNES FROM FISH MEAL
Any live business man possessing about \$30,000, (or one capable of organizing company for that amount) can secure complete new equipment for catching trash fish in Florida waters and rendering such fish into Fish Meal and Oil, the demand for which exceeds the supply. Inexhaustible supplies of Menhaden and other non-edible fish in Florida waters, where they can be caught with inexpensive equipment and labor. All experiments, including those made by U. S. Government, clearly demonstrate Fish Meal as splendid food for chickens and hogs. Entire production of Fish Meal and Oil can be immediately sold at very profitable prices. We manufacture and sell rendering equipment and place you in most profitable section, also supervise your catching and rendering until you are thoroughly familiar with the business.

Address **EDWARD RENNEBURG & SONS CO.**, Baltimore, Md., or their Sales Agent, Box 146, St. Andrews, Fla.

FOR SALE—CONTROLLING INTEREST in Saw Mill Machinery and Contractors Equipment House with Machine Shop, located in one of the best distributing centers in the South.

Well established, incorporated growing business, at actual replacement cash inventory. Will require approximately \$20,000.00 cash to handle.

A real bargain for a practical machinery man. Address No. 6284 care Manufacturers Record, Baltimore, Md.

MISCELLANEOUS

CONTRACT WANTED on narrow margin of profit for bridge filling, grading, excavation or concrete construction. Prefer railroad, but will consider other work. Badgett Brothers Construction Co., Bergman, Ark.

COLLECTION

COLLECTIONS
MERRIAM
507 FIFTH AVENUE,
NEW YORK CITY

FINANCIAL

SOUTHERN
MILL STOCKS
BANK STOCKS
BONDS
25 years' experience in this field.
F. C. ABBOTT & CO.,
Charlotte, N. C.

FACTORY SITES

JACKSONVILLE, FLORIDA.
Manufacturing site containing 30 acres with new Concrete Building 70x365, has a solid concrete loading platform entire length of building. On the St. Johns River Terminal Railroad which gives Railroad connection to 5 Trunk Lines without switching charges. Building originally erected for Automobile Plant (but never occupied). The acreage can be cut into building lots and quickly sold. This building and location ideally situated either for Manufacturing or Warehouse. The original cost in the neighborhood of \$200,000 and can be purchased for almost one-half. Write us for full particulars about Jacksonville and State of Florida. **M. D. SUTTLES & CO.**, Jacksonville, Fla.

FOR SALE—A SPLENDID SITE
For manufacturing—situated at Wilmington, N. C. Water and rail connection. Labor plentiful. No city tax. Can secure millions of feet of pine and hard wood timber within twenty miles. **ROGER MOORE'S SONS & CO.**, Wilmington, N. C.

INDUSTRIAL PLANTS

FOR SALE—Owner retiring, will sell cheap a good coal yard and flour mill with sidings on two railroads. Located in growing city. Good paying business for live man. Address P. O. Box No. 11, Hagerstown, Md.

MANUFACTURING PLANT—Three story brick, 75,000 feet floor space sprinkled risk. Low insurance rate. Railroad Siding on two sides. Five and a half acres land in fee. Located on Southern Railway, in good manufacturing city. Good labor conditions. Built in 1917. First class condition. Now operating. Prices and terms reasonable. Full particulars to parties interested. **W. W. Moss, American Bldg.**, Baltimore, Md.

EXCELLENT MODERN WOOD WORKING PLANT, located in a splendid town. Plant consists of dry kilns, wood working plant, planing mill, all electrically equipped, with a good electric plant, or can use electricity from City Plant. Good water system, ample ground, side tracks from main line belong to plant; all docks equipped with steel rail. This plant is located in the center of one of the finest hardwood belt left in Continental United States, where labor conditions are excellent and the best climate and water in the world, with three railroads to supply it with lumber.
For full particulars address No. 6279, care Manufacturers Record, Baltimore, Md.

MACHINE SHOP & FOUNDRY FOR SALE—Electrically equipped; 4 good, new brick buildings. Ample ground. Two railroads. Largest and best equipped plant in the fastest developing section of the Southwest. 1000 big plants within truck delivery to use your service. Profitable manufacturing can be run in connection. Good labor conditions. A real money maker. Attractive price and terms. For particulars write, No. 6290, care Manufacturers Record.

PATENT ATTORNEYS

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. **Chandlee & Chandlee**, 412 7th St., N. W., Washington, D. C.

PATENT-SENSE—As one of the oldest patent firms in America we give inventors at lowest consistent charge, a service noted for results, evidenced by many well-known Patents of extraordinary value. Book, *Patent-Sense*, free. **Lacy & Lacey**, 735 F St., Washington, D. C., Estab. 1869.

PATENTS—TRADEMARKS—COPYRIGHTS.
WRITE for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing inventions. Send model or sketch and description of your invention for our free prompt opinion of its patentable nature. Highest references. Reasonable terms. **VICTOR J. EVANS & CO.**, 712 Ninth St., Washington, D. C.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. **Watson E. Coleman, Patent Lawyer**, 644 G St., N. W., Washington, D. C.

AGENCIES WANTED

WANTED—Something staple to sell. Established firm with well located office on lower Broadway, New York, wishes to increase its line. If you do not have a New York office we can handle your business to good advantage. Write, No. 6291, care Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

CHIEF engineer desires connection, exceptionally well versed in operation and maintenance of power plants, electrical and mechanical equipment. Engineer, 528 Center Street, Cairo, Illinois.

ENGINEER-SUPERINTENDENT desires permanent change of location. Has had fifteen years experience as engineer and superintendent on buildings, roads, streets, etc. Will consider only permanent connection. Married. Can furnish the best of references. No. 6292, care Manufacturers Record.

MEN WANTED

SALESMAN—High grade salesman with mechanical training to sell Davenport Heavy-duty Oil Engines to dealers and industrial plants. Opportunity to earn big commissions. Full time and side line men wanted. Write Dept. 309, Davenport Mfg. Co., Inc., Davenport, Iowa.

Salaried positions \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional managing, financial, etc., all lines. If you are qualified and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. **R. W. Bixby, Inc.**, 403 Lockwood Building, Buffalo, N. Y.

SALESMEN

We are introducing a storage bin for sand, gravel, stone, coal, etc., which is constructed of timber and steel, and is one of the lowest in cost per ton of capacity of any bin obtainable. If you are at present calling on road contractors, building supply companies, etc., and are interested in handling this proposition in your territory, we will be glad to hear from you. Address No. 6289 care Manufacturers Record, Baltimore, Md.

MACHINERY AND SUPPLIES

FOR SALE—Class B 16x16 Pyramidal Tents, made of 12-ounce Army Duck. Brand new 7'x10' Wagon Covers. **Jacob Hirsch**, Macon, Ga.

FOR SALE

At a sacrifice, 2 Merriman Asphalt Plants. Price low for quick sale. P. O. Box 1488, Greensboro, N. C.

FOR SALE

Equipment for manufacturing Arctic and Standard Ice Cans, good condition, at fraction of cost. **C. C. Fouts Co.**, Middletown, O.

MACHINERY AND SUPPLIES WANTED

WANTED—USED GENERATOR, 20 kva. or larger, 220 volts 3 phase, 60 cycles, in good operating condition. **Ira W. Hall**, Brownwood, Texas.

WANTED TO BUY—4 ton Ice Machine, new or first-class second hand machine. Address **G. T. Heard**, Brooksville, Miss.

Is this your standard?

BELOW THIS STANDARD no cylinder of Linde Oxygen may fall:

The contained oxygen must be a minimum of 99% in purity.

The gauge pressure must be fully up to 2000 lbs. on a basis of 70 degrees F.

The valve must be in good working order, and must not leak.

This standard, enjoyed by every Linde user, means a maximum and *uniform* service from each cylinder. And these advantages to the customer are carefully guarded in every Linde plant.

Every step in oxygen production, in repairing and filling of cylinders, is under a definite check, under carefully trained inspectors, using the most advanced testing appliances and methods.

THE LINDE AIR PRODUCTS COMPANY

General Offices: Carbide & Carbon Bldg., 30 East 42d Street, New York

The Largest Producer of Oxygen in the World

38 PLANTS — 77 WAREHOUSES

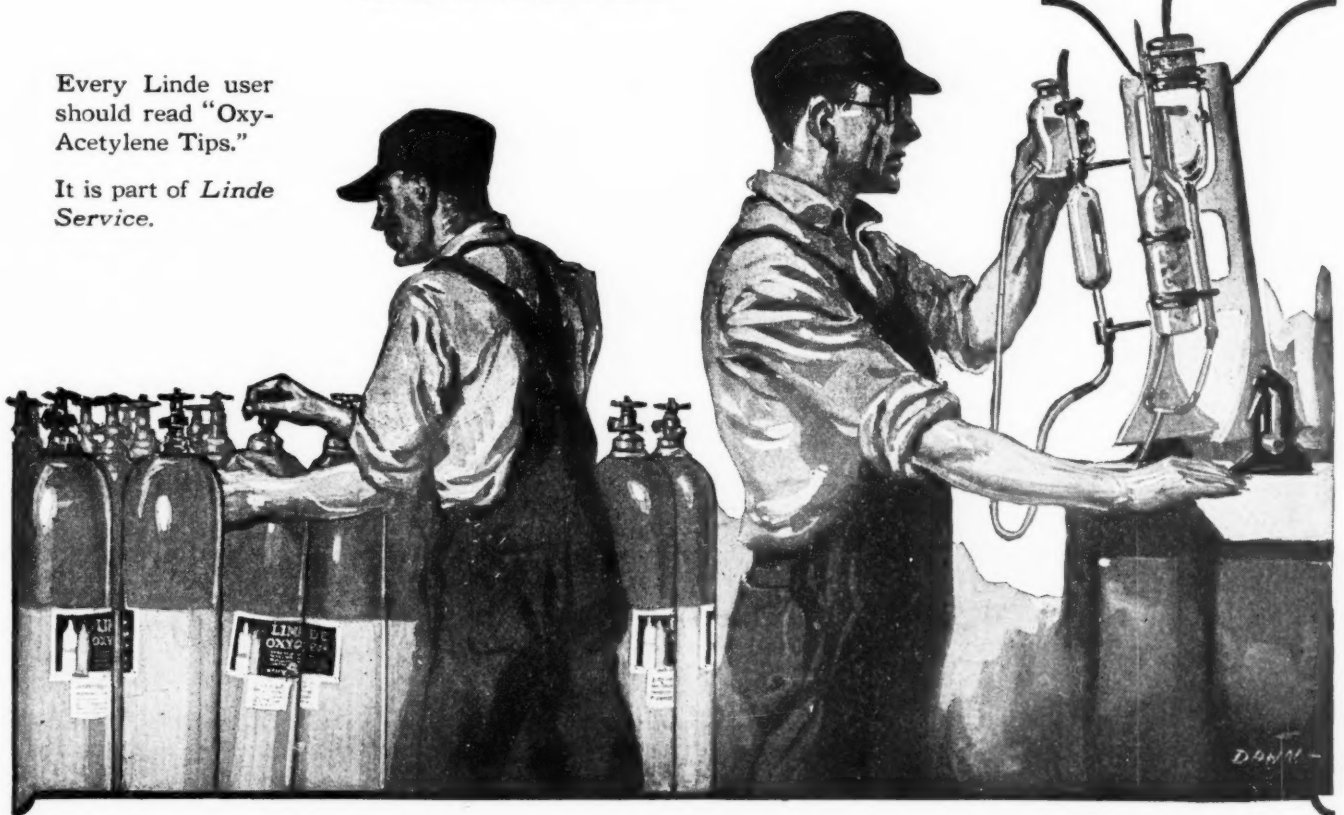
LINDE OXYGEN

District Sales Offices

ATLANTA
BALTIMORE
BOSTON
BUFFALO
CHICAGO
CLEVELAND
DALLAS
DETROIT
KANSAS CITY
LOS ANGELES
MILWAUKEE
NEW ORLEANS
NEW YORK
PHILADELPHIA
PITTSBURGH
ST. LOUIS
SALT LAKE CITY
SAN FRANCISCO
SEATTLE

Every Linde user should read "Oxy-Acetylene Tips."

It is part of Linde Service.

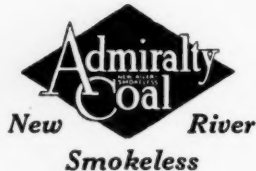


YOU CAN DEPEND ON THE LINDE COMPANY



ANNOUNCEMENT

THE Hazle Brook Coal Company, the Stonega Coke and Coal Company and the Wentz Company have bought all of the stock of the GENERAL COAL COMPANY, a Delaware Corporation, and after January first, Nineteen Twenty-Four, will operate it under their management.



The GENERAL COAL COMPANY will conduct the business formerly transacted by the Wentz Company and will be the exclusive Sales Agent for "ADMIRALTY," "RODA" and "STONEGA" coal and coke produced by the Stonega Coke and Coal Company, and for the "DEPENDABLE" Anthracite Coal produced by the Hazle Brook Coal Company.

**DEPENDABLE
COAL**
Anthracite

GENERAL COAL COMPANY

1727 Land Title Building

PHILADELPHIA

EXCLUSIVE SALES AGENT

—FOR—

STONEGA COKE AND COAL CO.

HAZLE BROOK COAL CO.

—AND—

SUCCESSORS TO BUSINESS OF
WENTZ COMPANY

BUNKER COAL

Supplied at

Baltimore, Md.
Charleston, S. C.
Jacksonville, Fla.
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Savannah, Ga.

BOSTON
CHARLESTON
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DETROIT
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**EXPORT
& COASTWISE**

COAL

Loaded at

Baltimore, Md.
Charleston, S. C.
Norfolk, Va.

